SERVICE MANUAL

DA-4 CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KV-32HS510	RM-Y190	US	SCC-S66G-A
KV-32HS510	RM-Y190	CANADA	SCC-S70F-A
KV-34DRC510	RM-Y190	LATIN NORTH	SCC-S71F-A
KV-34DRC510	RM-Y190	LATIN SOUTH	SCC-S71G-A
KV-34HS510	RM-Y191	US	SCC-S66H-A
KV-34HS510	RM-Y191	CANADA	SCC-S70G-A
KV-36HS510	RM-Y190	US	SCC-S66J-A
KV-36HS510	RM-Y190	CANADA	SCC-S70H-A
KV-36HS510	RM-Y190	HAWAII	SCC-S69D-A
KV-38DRC510	RM-Y190	LATIN NORTH	SCC-S71H-A
KV-38DRC510	RM-Y190	LATIN SOUTH	SCC-S71J-A

ORIGINAL MANUAL ISSUE DATE: 3/2003

☛ **UPDATED ITEM**

REVISION DATE	REVISION TYPE	SUBJECT
3/2003		No revisions or updates are applicable at this time.
6/2003	Correction - 1	Replaced P. 220 - J9001 added to CX Board Parts List.
12/2004		Corrected D Board Schematic Page 2. Replaced page 129 with page 129.
		Corrected ID Map Table. Replaced page 123 with page 123.

TRINITRON® COLOR TELEVISION

SONY.

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KV-34DRC510	RM-Y190	LATIN SOUTH	SCC-S71G-A
KV-34HS510	RM-Y191	US	SCC-S66H-A
KV-34HS510	RM-Y191	CANADA	SCC-S70G-A
KV-36HS510	RM-Y190	US	SCC-S66J-A
KV-36HS510	RM-Y190	CANADA	SCC-S70H-A
KV-36HS510	RM-Y190	HAWAII	SCC-S69D-A
KV-38DRC510	RM-Y190	LATIN NORTH	SCC-S71H-A
KV-38DRC510	RM-Y190	LATIN SOUTH	SCC-S71J-A

KV-32HS510

RM-Y190

TRINITRON® COLOR TELEVISION

SONY®

9-965-937-03

TABLE OF CONTENTS

SPECIFICATIONS

	KV-32HS510 KV-34DRC510 LATIN NORTH	KV-34DRC510 LATIN SOUTH	KV-34HS510	KV-36HS510 KV-38DRC510 LATIN NORTH	KV-38DRC510 LATIN SOUTH
Power Requirements	120V, 60Hz	220V, 50-60Hz	120V, 60Hz	120V, 60Hz	220V, 50-60Hz
Number of Inputs/Outputs					
Video [1]			4		
S Video [2]			3		
Y,P$_B$, P$_R$ [3]			2		
Audio [4]			7		
Audio Out [5]			1		
Monitor Out			1		
Control-S (In/Out)			YES		
Memory Stick			YES		
DVI-HDTV [6]			1		
Speaker Output (W)			7.5W x 2 15W Subwoofer		
Power Consumption (W)					
In Use (Max)			280W		
In Standby			1W		
Dimensions (W x H x D)					
mm	898 x 689 x 608 mm		994 x 622 x 591.3 mm	1017 x 760 x 643 mm	
in	35 $^{3/8}$ x 27 $^{1/8}$ x 24 in		39 $^{3/16}$ x 24 $^{1/2}$ x 23 $^{5/16}$ in	40 x 30 x 25 $^{3/8}$ in	
Mass					
kg	80 kg		93 kg	104.3 kg	
lbs	176.5 lbs		201 lbs	230 lbs	

1) 1 Vp-p 75 ohms unbalanced, sync negative
2) Y: 1 Vp-p 75 ohms unbalanced, sync negative
   C: 0.286 Vp-p (Burst signal), 75 ohms
3) Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;
   P$_B$: 0.7 Vp-p, 75 ohms
   P$_R$: 0.7 Vp-p, 75 ohms
4) 500 mVrms (100% modulation), Impedance: 47 kilohms
5) More than 408 mVrms at the maximum volume setting (variable)
   More than 408 mVrms (fix); Impedance (output): 2 kilohms
6) 3.3V T.M.D.S., 50 ohms
   The DVI-HDTV input terminal is complieant with the EIA-861
   standard and is not intended for use with personal computers.

Design and specifications are subject to change without notice.

Television system

American TV standard, NTSC

Channel coverage

VHF: 2-13/ UHF: 14-69/ CATV: 1-125

Picture tube

FD Trinitron® tube

Visible screen size

32-inch picture measured diagonally (KV-32HS510//34DRC510 Only)
34-inch picture measured diagonally (KV-34HS510 Only)
36-inch picture measured diagonally (KV-36HS510/38DRC510 Only)

Actual screen size

34-inch measured diagonally (KV-32HS510//34DRC510 Only)
36-inch measured diagonally (KV-34HS510 Only)
38-inch measured diagonally (KV-36HS510/38DRC510 Only)

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander RM-RM-Y190 (All Except KV-34HS510)
Remote Commander RM-RM-Y191 (KV-34HS510 Only)
Two Size AA (R6) Batteries

Optional Accessories

AV Cable: VMC-810/820/830 HG
Audio Cable: RKC-515HG
Component Video Cable: VMC-10/30 HG

TV Stand: SU-32HS1 (KV-32HS510/34DRC510 Only)
TV Stand: SU-34HD1 (KV-34HS510 Only)
TV Stand: SU-36HS1 (KV-36HS510/38DRC510 Only)

Memory Stick Media: 8MB (MSA-8A); 16MB (MSA-16A);
   32MB (MSA-32A); 64MB (MSA-64A); 128MB (MSA-128A)

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un chássis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le chássis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.

2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground
A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

Figure A. Using an AC voltmeter to check AC leakage.
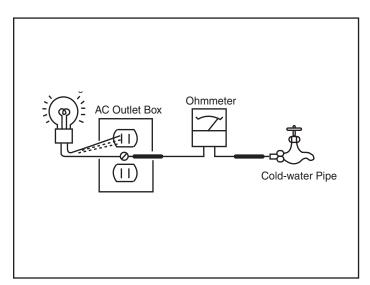
Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION

Self Diagnosis
Supported model

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators
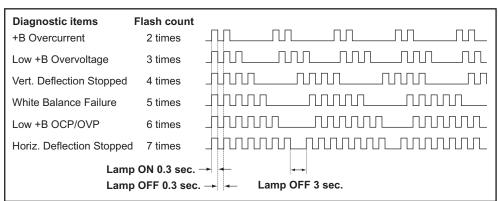
When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.
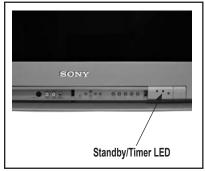
Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", an error has occurred.

Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_____	• Power cord is not plugged in. • Fuse is burned out (F501). (A Board)	• Power does not come on. • No power is supplied to the TV. • AC Power supply is faulty.
+B Overcurrent (OCP)*	2 times	2:0 or 2:1	• H.OUT (Q5030) is shorted. (D Board) • +B PWM (Q5003) is shorted. (D Board)	• Power does not come on. • Load on power line shorted.
Low +B Overvoltage (OVP)	3 times	3:0 or 3:1	• IC6505 is faulty. (D Board)	• Has entered standby mode.
Vertical Deflection Stopped	4 times	4:0 or 4:1	• 15V is not supplied. (D Board) • IC5004 is faulty. (D Board)	• Has entered standby mode after Horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
White Balance Failure (not balanced)	5 times	5:0 or 5:1	• Video OUT (IC9001-IC9003) is faulty. (CH, CX Board) • CRT drive (IC2801) is faulty. (B Board) • G2 is improperly adjusted.**	• No raster is generated. • CRT cathode current detection reference pulse output is small.
LOW +B OCP/OVP (overcurrent/overvoltage)***	6 times	6:0 or 6:1	• +5 line is overloaded. (A, B, M Boards) • +5 line is shorted. (A, B, M Boards) • IC504 is faulty. (A Board)	• No picture
Horizontal Deflection Stopped	7 times	7:0 or 7:1		• No picture

* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.
** Refer to Screen (G2) in Section 2-5 of this manual.
*** If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

Display of Standby/Timer LED Flash Count

Diagnostic items	Flash count
+B Overcurrent	2 times
Low +B Overvoltage	3 times
Vert. Deflection Stopped	4 times
White Balance Failure	5 times
Low +B OCP/OVP	6 times
Horiz. Deflection Stopped	7 times

Lamp ON 0.3 sec.
Lamp OFF 0.3 sec.
Lamp OFF 3 sec.

SONY

Standby/Timer LED

* One flash count is not used for self-diagnostic.

Stopping the Standby/Timer LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

Self-Diagnostic Screen Display

For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:

DISPLAY ➡ Channel 5 ➡ Sound volume - ➡ Power ON.

```
SELF DIAGNOSIS
2: +B OCP
   0
3: +B OVP
   0
4: VSTOP
   0
5: AKB        1
6: LOWB       0
```

Numeral "0" means that no fault was detected.
Numeral "1" means a fault was detected one time only.

Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".
Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.
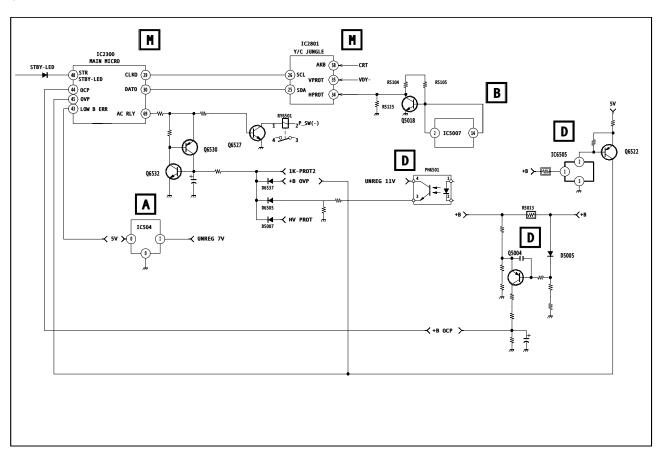
Clearing the Result Display

To clear the result display to "0", press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Channel 8 ➡ ENTER

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit

+B overcurrent (OCP)
Occurs when excessive current flows through R5013. The increase in voltage across R5013 causes the output of Q5004 to go high, and this high signal goes to the micro.

+B overvoltage (OVP)
IC6505 detects +B OVP condition and turns on Q6522. This sends a high signal to the micro and also shuts down the AC relay.

V-STOP
Occurs when an absence of the vertical deflection pulse is detected by pin 24 of IC2801 (B Board). Power supply will shut down when waveform interval exceeds 2 seconds.

White Balance Failure
If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC2801. TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

Low B OCP/OVP
Occurs when set 5V is out.

Horizontal Deflection Stopped
Occurs when either:
       1) a +B overcurrent is detected (IC5007), or
       2) overheating is detected (Thermistor TH5002).

SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL

4 Screws
+BVTP 4 x 16

Rear Cover

4 Screws
+BVTP 4 x 16

6 Screws
+BVTP 4 x 16
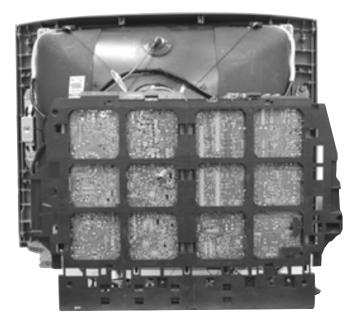
1-2. CHASSIS ASSEMBLY REMOVAL

① Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.

② Pull up and rotate both the A and D Boards in order to service the unit.

1-3. SERVICE POSITION
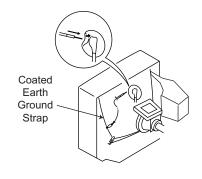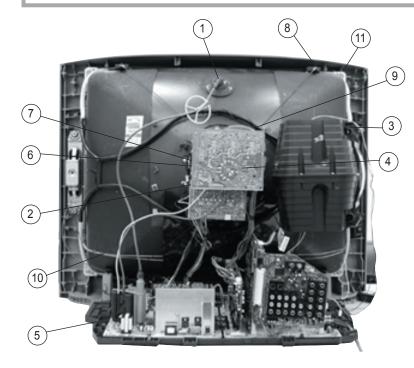
① **CAUTION!** - Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.

② Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.

③ Pull up and rotate both the A and D Boards in order to service the unit.

④ When plugging in connector from HM Board to B Board at CN3603 insure two brown wires are facing upward towards neck assembly.

1-4. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

Coated Earth Ground Strap

1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the Sub-Woofer Assemblies.
4. Remove the CX Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the neck assembly fixing screw and remove.
7. Loosen the deflection yoke fixing screw and remove.
8. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
9. Remove the degaussing coils.
10. Remove the CRT grounding strap and spring tension devices.
11. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

ANODE CAP REMOVAL PROCEDURE
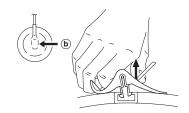
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

NOTE: After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield or carbon painted on the CRT.

REMOVAL PROCEDURES

Turn up one side of the rubber cap in the direction indicated by arrow a .

Use your thumb to pull the rubber cap firmly in the direction indicated by arrow b .

Anode Button

When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow c .

HOW TO HANDLE AN ANODE CAP

1. Do not use sharp objects which may cause damage to the surface of the anode cap.
2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.

SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

VIDEO MODE: STANDARD (RESET)

Perform the adjustments in order as follows:
1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

Test Equipment Required:
1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

2-1. BEAM LANDING

Preparation:
- Use cross hatch signal to rough adjust focus, G2 and then input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.
- Confirm data in service mode to match with CRT screen size.
  - CXA2170D-4
  - CXA8070 (Should be set to default)
  - VCEN, VPIN, HTPZ, PPHA, VANG, LANG, VBOW, LBOW (Should be set to default value).
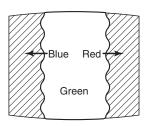
NOTE: Do not use the hand degausser; it magnetizes the CRT .

1. Input white pattern from pattern generator. Set the PICTURE control to maximum, and the BRIGHTNESS control to standard.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:

Purity Control

3. Input a green pattern from the pattern generator.
4. Move the deflection yoke backwards, (See Figure 1) and adjust with the purity control so that green is in the center and red and blue are even on both sides.

Blue   Red

Green

5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.

Figure 1
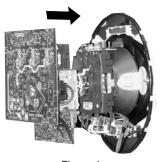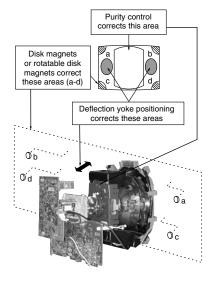
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. If landing at the corner is not right, adjust it by using the disk magnets.

Purity control corrects this area

Disk magnets or rotatable disk magnets correct these areas (a-d)

Deflection yoke positioning corrects these areas

2-2. V-PIN AND V-CEN ADJUSTMENT

Preparation:
• Input a cross hatch pattern signal.
• Set Video Mode to: Standard (Reset)
• For all 4X3 CRT, VPIN data has separate register for full and V-compress. Adjust both modes if needed.

1. Adjust service mode CXA2170D-1 05 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
2. Adjust service mode CXA2170D-1 06 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.
3. Horizontal lines should be straight from left to right. Check landing for side effect.
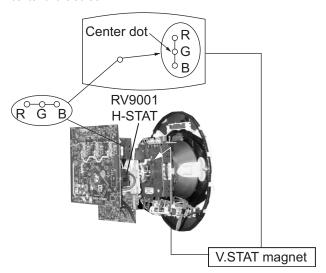
2-3. CONVERGENCE

Preparation:
• Set the CONTRAST and BRIGHTNESS control to standard (reset).
• Input a cross hatch pattern signal.
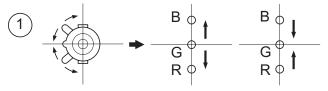
2-3.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

1. Disconnect the dynamic convergence before adjusting static convergence (CN903), except for minor touch-up.
2. Adjust H.STAT convergence, RV9001, to converge red, green, and blue dots in the center of the screen.
3. Connect dynamic convergence back.
4. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.
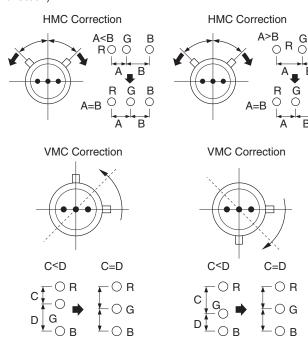
5. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.

2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

The respective dot positions result from moving each magnet interact. Perform the following adjustments while tracking.
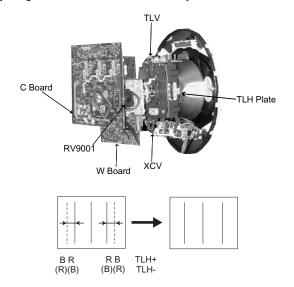
1. Use the BMC tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).

2-3.3. TLH PLATE ADJUSTMENT

Preparation:
• Input a cross hatch pattern signal.
• Adjust unbalanced horizontal convergence of red and blue dots by adjusting the TLH Plate on the deflection yoke.
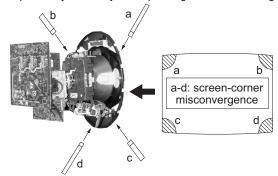
1. Adjust XCV core to balance X axis.
2. Adjust the vertical red and blue convergence with V.TILT (TLV VR).
   Note: Perform adjustments while tracking Item 1.

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2-3.4. SCREEN-CORNER CONVERGENCE

Preparation:
• Input a cross hatch pattern signal.

1. Affix a permalloy assembly corresponding to the misconverged areas.

a-d: screen-corner misconvergence
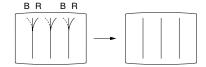
2-3.5. DYNAMIC CONVERGENCE ADJUSTMENTS
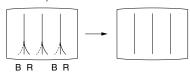
• Set dynamic convergence using the following service mode adjustment data.
• Only H-component can be corrected, for vertical component use permalloy to compensate.
• After adjusting the following parameter, write data into NVM
MUTING + ENTER then copy for 1080i CPY2
(D Conv Item 13 - Change data to 1 then write.)

Output signal format		480P/960I	480P/960I	480P/960I	1080I	1080I	480P/960I
FOR 4:3 CRTs Twin:T, Favorite:F, Scroll: S, MS:M, fReeze;R, Tes		X	X	FULL S, TT	FULL M	Vcomp T, R	Vcomp F
FOR 16:9 CRT Twin:T, Favorite:F, Scroll: S, MS:M, fReeze;R, Tes		WZ	ZOOM	FULL F,S, TT	FULL T, M, R	X	Normal
Device name	Item #	OSD					
CXA8070	0	YBWU	Adjust (31)				--> Copy
	1	YBWL	Adjust (31)				--> Copy
	2	RSAP	Adjust (31)				--> Copy
	3	RUBW	Adjust (31)				--> Copy
	4	RUMB	Adjust (31)				--> Copy
	5	RLBW	Adjust (31)				--> Copy
	6	RLMB	Adjust (31)				--> Copy
	7	LSAP	Adjust (31)				--> Copy
	8	LUBW	Adjust (31)				--> Copy
	9	LUMB	Adjust (31)				--> Copy
	10	LLBW	Adjust (31)				--> Copy
	11	LLMB	Adjust (31)				--> Copy
	12	CADJ	Adjust (29)				
			(Default)				
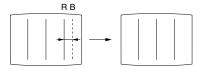
0. YBWU (Upper Y-BOW)
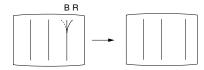
1. YBWL (Lower Y BOW)
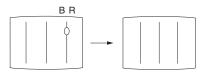
2. RSAP (Right H AMP)
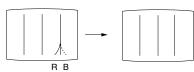
3. RUBW (Right Upper BOW)
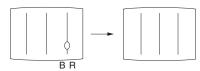
4. RUMB (Right Upper Middle BOW)
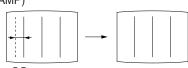
5. RLBW (Right Lower BOW)
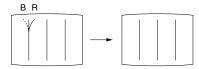
6. RLMB (Right Lower Middle BOW)
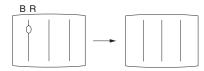
7. LSAP (Left H AMP)
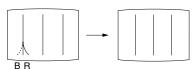
8. LUBW (Left Upper BOW)
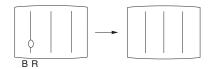
9. LUMB (Left Upper Middle BOW)

10. LLBW (Left Lower BOW)

11. LLMB (Left Lower Middle BOW)

B R

12. CADJ Fix 29

2-4. FOCUS ADJUSTMENT

Confirm neck assembly Z axis position. (See Figure 1)

1. Input a dot signal.
2. Set Video Mode to STANDARD.
3. Adjust focus VR clockwise (DE-Focus) to confirm that the dot's shape is centered. (Figure 2 & 3) Confirm neck assembly rotation by W Board position. W Board should be level ±1°. Adjust as necessary to balance dot shape along center horizontal line, then refocus.
4. Input a HD monoscope signal.
5. Confirm center focus with focus VR.

Neck Assy.

G1

Supporter

Figure 1

FOCUS

Screen (G2)

Figure 2

DOT SHAPE:

Figure 3
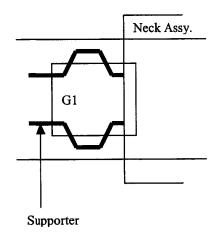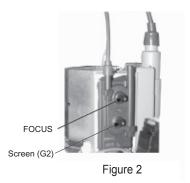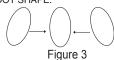
NOTE: Changing neck assembly position will affect corner convergence.

2-4.1. DYNAMIC FOCUS/DYNAMIC QUADRA-POLE DATA

Normally, no adjustments are necessary for these systems. If for some reason the data is lost, use the following data:

Write the data from any non-vertically compressed mode, then use the CPY1 function (CXA2170D-4 Item 6) to copy the data to the vertical compressed modes. V-compressed data is identical to non-v-compressed data. Service personnel with a trained eye can adjust the DF or DQP registers to adjust DF phase (Item 7) or DQP phase (Item 8), respectively, to balance left and right focus. Refrain from adjusting more than 5 steps from table data below. Further adjustment indicates a circuit problem -- troubleshoot to cause. Be sure that Neck Assembly is in the proper location

(See Section 2-4 Figure 1 - before changing DF/DQP data or troubleshooting circuit when DF/DQP is suspect.)

2-5. SCREEN (G2)

1. Input composite white field into Video 1.
2. Set to service mode and adjust as follows:

(Fig 1)	Operation procedure	Standards	Notes
CXA2170P-2 PICO 1→ 0	1) In Full mode, apply changes in Fig 1		
	2) Mount G2 adjustment jig. Adjust Cathode voltage if the standard is not met. Standard varies by CRT size.	170 ± 5 (V_DC) 175 ± 5 (V_DC)	34RSN, 36RV2, 38RSN
	3) Adjust G2 by Flyback transformer (T8001).		
	4) Return data changes in 1) to original condition		

2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:
• Set PRO MODE (Reset).

1. Input signal (480i Composite):
   • Color Bar Video 75 IRE (White) 75% modulation 7.5% Set-up.
   • Color Bar RF 75 IRE (White) 75% modulation 7.5% Set-up.

2-6.1. VIDEO INPUT - SUB CONTRAST ADJUSTMENT

Preparation:
• Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
• Set picture mode: Single (PRO MODE Reset).
• Picture: Max

1. Set to Service Mode and adjust as follows:

2150P-2
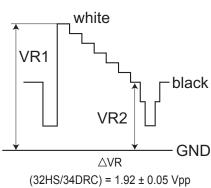
NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

2. Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the C Board.
3. Adjust contrast according to the service mode item: SPIO.

2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT

△VR
(32HS/34DRC) = 1.92 ± 0.05 Vpp
(34HS) = 1.67 ± 0.05 Vpp
(36HS/38DRC) = 2.00 ± 0.05 Vpp

4. Write data from Step 3 above, into memory.

2-6.2. VIDEO INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:
• Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
• Set picture mode: Single (PRO MODE Reset).
• Picture: Max

1. Set to Service Mode and adjust as follows:

2150P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7
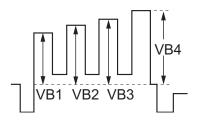
2. Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the C Board.
3. Adjust color according to Service Mode for SCLO.

4. Adjust color according to Service Mode for SHUO.

2103-1

NO.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE

COLOR: VB1 $\leq$ VB4 (=20 $\pm$ 40 mV)

HUE: VB2 $\leq$ VB3 (=20 $\pm$ 40 mV)

7. Write data into memory.

2-6.3. RF INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:
- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- Picture: Max

1. Set to Service Mode and adjust as follows:

2170P-4

NO.	Name	Control Function	Avg. Data
28	SPOF	SMALL PICTURE OFFSET	0

2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

2. Connect an oscilloscope to Pin 1 of CN9001 (R. DRV) on the C Board.
3. Adjust MAIN (left) side contrast according to service mode for SCON.

2103-1
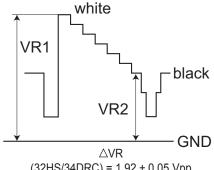
NO.	Name	Control Function
02	SCON	SUB-CONT

4. Adjust SUB (right) side contrast according to Service Mode for SCON.

2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT

$\triangle$VR

(32HS/34DRC) = 1.92 $\pm$ 0.05 Vpp

(34HS) = 1.67 $\pm$ 0.05 Vpp

(36HS/38DRC) = 2.00 $\pm$ 0.05 Vpp

5. Write data from Steps 3 - 4 above, into memory.
6. Set Service Mode

2170P-4

NO.	Name	Control Function	Avg. Data
28	SPOF	SMALL PICTURE OFFSET	13

2-6.4. RF INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:
- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the C Board.
3. Adjust MAIN (left) side color according to Service Mode for SCOL.
4. Adjust MAIN (left) side color according to Service Mode for SHUE.

2103-1
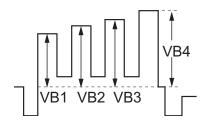
NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

5. Adjust SUB (right) side color according to Service Mode for SCOL.

6. Adjust SUB (right) side color according to Service Mode for SHUE.

2103-2

NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

COLOR: $VB1 \leq VB4$ (=20 ± 40 mV)

HUE: $VB2 \leq VB3$ (=20 ± 40 mV)
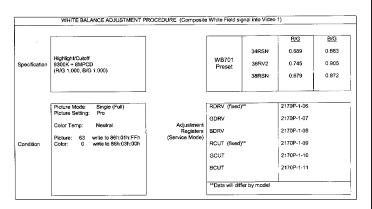
7. Write data into memory.

2-7. WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

Preparation

• Input an all white 480I (15.734 KHz) signal into the VIDEO 1 input terminal to perform the White Balance (highlight, cut-off) adjustments. The parameters to adjust are in the CXA2170P in Service Mode.

2-7.1. COLOR OFFSET ADJUSTMENT PROCEDURE

Preparation:

• Input an all white (30 IRE) signal to the specified input.

• Adjust the white balance using the specified registers.

VIDEO 1

CXA2103-M

NO.	Name	Control Function
20	CBO1	CB OFFSET
21	CRO1	CR OFFSET

VIDEO 5

CXA2103-M

NO.	Name	Control Function
20	CBO1	CB OFFSET
21	CRO1	CR OFFSET

VIDEO 7 - DVI

CXA2103-M

NO.	Name	Control Function
22	CBO2	CB01 (FROM VIDEO 5) - 5
23	CRO2	CR01 (FROM VIDEO 5) -4

2-8. H RASTER CENTER ADJUSTMENT

Preparation:

• Input a monoscope signal.

• Set to NTSC (DRC) mode.

1. Set to Service Mode and adjust as follows:

CXA2150P-2

NO.	Name	Control Function	Avg. Data
06	AGNG	AGING 1, AGING 2	2

CXA2150D-2

NO.	Name	Control Function	Avg. Data
02	HSIZ	Horiz Size	45
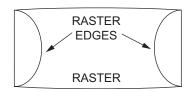
CXA2150D-3

NO.	Name	Control Function	Avg. Data
00	HBLK	Blanking Enable	0

2. Reduce HSIZ to see sides of raster.

3. Adjust H-Center with CXA2170D-2.

4. Adjust to the best screen position with H-CENT and write data.

5. Restore aging, HSIZ and HBLK to original condition.

Raster Edge Equal:

2-9. PICTURE DISTORTION ADJUSTMENTS

2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

1. Face the picture tube in an east-west direction. (For best condition.)

2. Complete V-PIN and V-CEN adjustments first (A2170-D1 06 V-PIN, A2170-D1 05 V-CEN).

3. Input a monoscope and crosshatch signal. Adjust the picture distortion with the following service parameters to balance the best condition for these two signals.

   NOTE: Make sure that the picture size is within specs. Vertical size is 11.8 ± 0.1 sq. and horizontal size is 15.8 ± 0.1 sq.
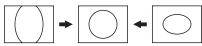
4. Write data into memory before changing modes.

CXA2170D-1

Item 0. VPOS (V-POSITION)

Item 1. VSIZ (V-SIZE)
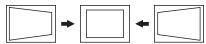
Item 3. VLIN (V-LINE)

Item 4. VSCO (VS-COR)

Item 9. HTPZ (H-TRAPEZOID)
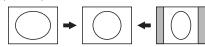
CXA2170D-2

Item 1. HPOS (H-POSITION)
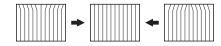
Item 2. HSIZ (H-SIZE)
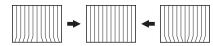
Item 5. PIN (PIN AMP)
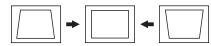
Item 7. UCP (UP COR PIN COR)
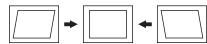
Item 8. LCP (LOW CO PIN COR)

Item 14. PPHA (PIN PHASE)

Item 15. VANG (AFC-ANGLE)

Item 16. LANG (L-ANGLE)

Item 17. VBOW (AFC-BOW)

Item 18. LBOW (L-BOW)

2-9.2. 1080I HD MODE ADJUSTMENT

1. Input a 1080i cross-hatch signal and an HD monoscope signal that contains overscan markers.

2. Adjust the raster position per Section 2-8., only if this procedure was not performed for full mode.

3. Adjust the geometry similar to Full DRC mode. Vertical size is 11.7 ± 0.1 sq. and horizontal size is 15.6 ± 0.1 sq., if monoscope signal is available. Otherwise, set the Vertical size to 91.0 ± 0.6% scan and Horizontal size as 91.0 ± 0.6% scan.

4. Use the following register to adjust the horizontal parameter:

A2150-D2	01	HPOS

NOTE: If necessary, touch up the geometry using the data register listed above for Full mode. Check NTSC full mode for side effect and balance.

5. Write the data into memory before changing modes.

2-9.3. VERTICAL COMPRESSED MODE CHECK AND CONFIRMATION (FOR 4X3 CRT ONLY)

1. Input a monoscope and crosshatch signal.

2. Check vertical compressed mode.

3. Adjust VPIN if needed.

2-9.4. TWIN MODE/FAVORITE/INDEX/ NORMAL MODE GEOMETRY CONFIRMATION

TWIN mode and FAVORITE mode use the FULL mode adjustment data. The key point for TWIN mode adjustment is the blue border appearance. The left border on the left picture should not be visible when the left picture is selected. Similarly, the right border on the right picture should not be visible when the right picture is selected. Balance the HPOS or HSIZ data for FULL and TWIN mode.

For INDEX mode, however, no clipping of the picture edge should be visible for the small sampled pictures on the right side. Adjust HSIZ/ HPOS to balance FULL and INDEX mode for this. Avoid displaying the edge of the raster in FULL or FAVORITE mode.

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. PREPARATION BEFORE CONFIRMATION

Standard .... 135.3 ± 1 VAC

Check Condition:

   AC input voltage: 120 (± 2) VAC

Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.

Setting Mode: .... Full mode

Signal Input: .... Cross-hatch of NTSC

Initial Setting: .... Standard Reset condition

Confirm Point: .... Across CN5509 PIN 9 for B+ of D Board

3-1.1 HOLD-DOWN OPERATION CONFIRMATION

1. Using an external DC power supply, apply 5.3 ± 0.5 Vdc between Pin 2 of CN507 (jig connector) and ground (Pin 8); confirm set goes to hold-down (main power relay click).

2. Remove the external DC power supply.

3-2. B+ MAX CONFIRMATION

Standard   135.3 ± 1 VAC
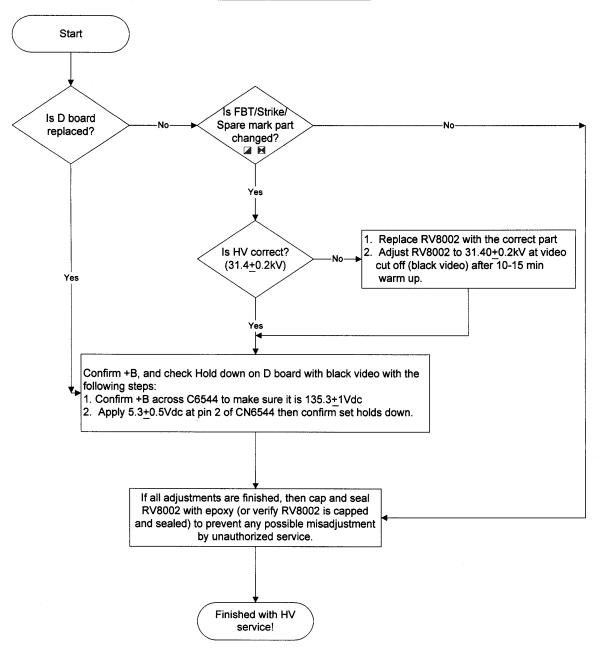
Check Condition:

   AC input voltage: 120 (± 2) VAC

Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.

Setting Mode: .... Full mode

Signal Input: .... Cross-hatch of NTSC

Initial Setting: .... Standard Reset condition

Confirm Point: .... Across CN5509 PIN 9 for B+ of D Board

3-3. HV SERVICE FLOWCHART

HV Serviceman flow chart

Start

Is D board replaced?

— No —

Is FBT/Strike/ Spare mark part changed?

— No —

Yes

Is HV correct? (31.4+0.2kV)

— No —

1. Replace RV8002 with the correct part
2. Adjust RV8002 to 31.40+0.2kV at video cut off (black video) after 10-15 min warm up.

Yes

Yes

Confirm +B, and check Hold down on D board with black video with the following steps:
1. Confirm +B across C6544 to make sure it is 135.3+1Vdc
2. Apply 5.3+0.5Vdc at pin 2 of CN6544 then confirm set holds down.

If all adjustments are finished, then cap and seal RV8002 with epoxy (or verify RV8002 is capped and sealed) to prevent any possible misadjustment by unauthorized service.

Finished with HV service!

SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y190, RM-Y191) to perform the circuit adjustments in this section.
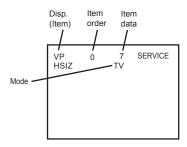
Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING SERVICE ADJUSTMENT MODE

1. Standby mode (Power off).
2. Press the following buttons on the remote commander within a second of each other:
   DISPLAY ⟶ Channel 5 ⟶ Sound Volume + ⟶ Power
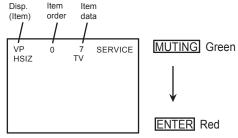
4-1.1. SERVICE ADJUSTMENT MODE IN
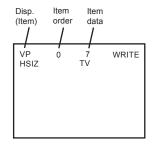
3. The CRT displays the item being adjusted.
4. Press 1 or 2 on the Remote Commander to select the item.
5. Press 3 or 6 on the Remote Commander to change the data.
6. Press MUTING then ENTER to write into memory.

4-1.2. SERVICE ADJUSTMENT MODE MEMORY

7. Press then on the Remote Commander to initialize.

8. DO NOT turn off set until SERVICE appears.

4-1.3. READING THE MEMORY

1. Enter into Service Mode.
2. Press 0 on the Remote Commander.
3. Press ENTER to read memory.

4-1.4. ADJUSTING THE PICTURE

1. Enter into Service Mode
2. Press 2 or 5 on the remote to select the device item.
3. Press 1 or 4 on the remote to select an item.
4. Press 3 or 6 on the remote to change the data.
5. Press MUTING then ENTER to write into memory.

4-1.5. RESETTING THE DATA

Note: Be careful when using the remote! It will clear and re-initialize ALL NVM data including deflection adjustment data if not reset properly as follows:

4-1.6. RESETTING THE MID NVM DATA

1. Enter into Service Mode.
2. Press 7, then JUMP, and then press ENTER on the remote.

4-1.7. RESETTING THE SYSTEM NVM DATA

1. Enter into Service Mode.
2. Press 7, then 9, and then press ENTER on the remote.

4-1.8. COPY FUNCTION

How to use copy function for DA4 Chassis:

• After writing your adjusted data into NVM MUTING then ENTER , copy can be made by changing copy data from 0 to 1 then MUTING, ENTER again.
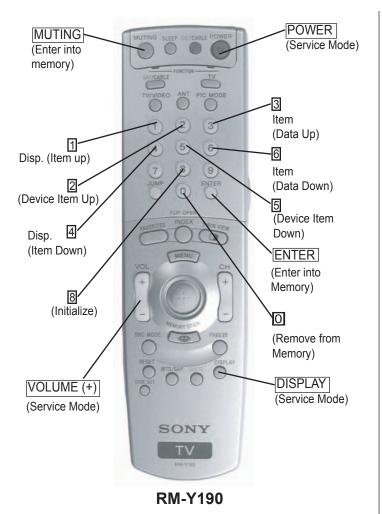
WARNING: DO NOT copy data before writing your corrected data in NVM. If data is copied before writing corrected data, old data will be copied.
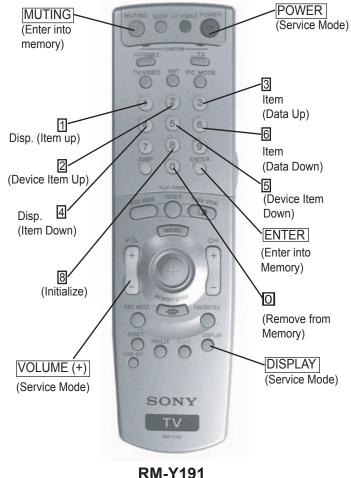
• CPY1: DF/DQP DATA   (CXA2170D-4 Item 6)
• CPY2: CONVERGENCE DATA   (D-CONV Item 13)

4-2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS

MUTING
(Enter into memory)

POWER
(Service Mode)

3
Item
(Data Up)

1
Disp. (Item up)

6
Item
(Data Down)

2
(Device Item Up)

5
(Device Item Down)

Disp.
(Item Down)

4

ENTER
(Enter into Memory)

8
(Initialize)

0
(Remove from Memory)

VOLUME (+)
(Service Mode)

DISPLAY
(Service Mode)

SONY
TV

RM-Y190

MUTING
(Enter into memory)

POWER
(Service Mode)

3
Item
(Data Up)

1
Disp. (Item up)

6
Item
(Data Down)

2
(Device Item Up)

5
(Device Item Down)

Disp.
(Item Down)

4

ENTER
(Enter into Memory)

8
(Initialize)

0
(Remove from Memory)

VOLUME (+)
(Service Mode)

DISPLAY
(Service Mode)

SONY
TV

RM-Y191

4-4. SERVICE DATA LISTS

4-4.1. KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data									
VERSION	0	VER	0,1	0									
	1	DMY1	0-255	0									
3D_COMB	0	NRMD	0-3	0									
	1	CLKS	0-3	1									
	2	NSDS	0-3	0									
	3	MSS	0-3	0									
	4	KILS	0-3	1									
	5	FRZE	0, 1	0									
	6	EXCS	0-3	1									
	7	CDL	0-7	4									
				NRMD(0)	**NRMD(1)**	**NRMD(2)**	**NRMD(3)**						
	8	DYCO	0-15	2	2	2	2						
	9	DYGA	0-15	10	10	10	10						
	10	DCCO	0-15	5	5	5	5						
	11	DCGA	0-15	5	5	5	5						
	12	WSC	0-2	1									
	13	WSS	0, 1	0									
				Vivid	**Standard**	**Movie**	**Pro**						
	14	VAPG	0-7	4	2	2	0						
	15	VAPI	0-31	4	4	4	0						
	16	TEST	0, 1	0									
				Vivid		**Standard**		**Movie**		**Pro**		**TWIN**
				RF	**CV/YC**	**RF**	**CV/YC**	**RF**	**CV/YC**	**RF**	**CV/YC**	**Any**
	17	YPFT	0-3	3	3	3	3	3	3	3	3	3
	18	YPFG	0-15	7	5	7	5	5	6	5	5	6
	19	SEDC	0, 1	0									
	20	SEDY	0, 1	1									
	21	YHCO	0-3	1									
	22	YHCG	0, 1	0									
	23	SYSP	0-3	0									
	24	TES2	0-7	0									

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
2103_1				480i	Others			
	0	YLEV	0-62	34	20			
	1	CLEV	0-63	40	17			
				RF	CV/YC			
	2	SCON	0-15	9	9			
	3	SCOL	0-15	2	2			
	4	SHUE	0-15	11	5			
	5	YDLY	0-3	0	0			
				RF	CV	V5	YC	
	6	SHAP	0-15	6	8	4	8	
	7	SHF0	0-3	0	0	3	0	
	8	PREO	0-3	3	3	3	3	
	9	BPF0	0-3	3				
	10	BPFQ	0-3	0				
				RF	CV/YC			
	11	BPSW	0, 1	1	0			
	12	TRAP	0, 1	0				
	13	LPF	0, 1	1				
				RF	CV/YC	Others		
	14	AFCG	0, 1	1	0	0		
	15	CDMD	0-3	3	3	3		
	16	SSMD	0-3	0	0	0		
				RF	CV/YC	V5/V6	DVI	
	17	HMSK	0, 1	0	1	1	0	
	18	HALI	0, 1	0				
				RF	CV/YC	V5/V6	DVI	
	19	PPHA	0-15	7	7	7	0	
				RF	V5/V6			
	20	CBO1	0-63	34	36			
	21	CRO1	0-63	32	38			
	22	CBO2	0-63	32				
	23	CRO2	0-63	32				
				Single	BLK(0)	BLK(1)	BLK(2)	BLK(3)
	24	ATPD	0-3	0	1	1	2	1
	25	DCTR	0-3	0	2	1	3	2

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
2103_2				DRC	VDO
	0	YLEV	0-63	41	35
	1	CLEV	0-63	31	42
				RF	CV/YC
	2	SCON	0-15	9	9
	3	SCOL	0-15	2	2
	4	SHUE	0-15	11	5
	5	YDLY	0-3	0	0
	6	SHAP	0-15	6	8
	7	SHF0	0-3	0	0
	8	PREO	0-3	3	3
	9	BPF0	0-3	3	
	10	BPFQ	0-3	0	
				RF	CV/YC
	11	BPSW	0, 1	1	0
	12	TRAP	0, 1	0	
				DRC	VDO
	13	LPF	0, 1	1	0
				RF	CV/YC
	14	AFCG	0, 1	1	0
	15	CDMD	0-3	3	3
	16	SSMD	0-3	0	0
	17	HMSK	0, 1	0	1
	18	HALI	0, 1	0	
				RF	CV/YC
	19	PPHA	0-15	7	7
	20	CBO1	0-63	34	
	21	CRO1	0-63	32	

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data								
2170P_1												
				CV/YC	480i	VDO	MS	PT				
	0	YOSW	0, 1	1	0	0	0	0				
	1	TCOF	0, 1	0								
										DVI 480p VGA	DVI 720p 1080i	
				DRC CV/YC	DRC 480i	V5/V6 480p	V5/V6 720p	V5/V6 1080i			PT 1080i	MS
	2	YOF	0-15	0	15	7	7	7	7	7	7	7
	3	CBOF	0-63	31	31	31	31	31	31	31	31	31
	4	CROF	0-63	31	31	31	31	31	31	31	31	31
	5	SBRT	0-63	31								
	6	RDRV	0-63	45								
	7	GDRV	0-63	35								
	8	BDRV	0-63	34								
	9	RCUT	0-63	41								
	10	GCUT	0-63	35								
	11	BCUT	0-63	18								
				WARM	COOL							
	12	WBSW	0, 1	1								
	13	SBOF	0-15	7	7							
	14	RDOF	0-63	31	31							
	15	GDOF	0-63	34	31							
	16	BDOF	0-63	45	34							
	17	RCOF	0-63	31	31							
	18	GCOF	0-63	37	31							
	19	BCOF	0-63	63	34							
	20	DCOL	0-3	1								

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
2170P_2	0	PICO	0, 1	1	
	1	RGBS	0-7	7	
	2	BLKB	0-3	3	
	3	RGBL	0-3	2	
	4	YLMT	0-3	3	
	5	AGNG	0-3	0	
	6	AKBO	0, 1	0	
				Other	PT
	7	CLPP	0-3	3	3
	8	CLPG	0, 1	0	0
	9	CLPS	0, 1	0	0
	10	PPAD	0-7	3	3
	11	SYNP	0, 1	0	0
	12	HVBT	0, 1	0	

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range		RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
2170P_3				Initial Data														
	0	SYSM	0-3	ViVid Mode	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15															
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15		5	5	5	5	10	10	5	5	5	10	10	10	10	5
	6	SHOF	0-3		2	2	2	1	3	3	2	1	1	3	3	3	3	1
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	3	1	3	3	3	1	1	3	3	3	3	2
	9	F1LV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	LTLV	0-3		2	3	3	3	3	3	3	3	2	3	3	3	3	3
	11	LTMD	0, 1		1	1	1	0	0	0	1	0	1	0	0	0	0	1
	12	CTLV	0-3		0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7		1	1	1	1	1	1	1	1	0	1	1	1	1	1
	14	UCOF	0-7		2	2	2	2	2	2	2	2	0	2	2	2	2	2
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		7	11	15	19	23	27	31	35	44	39	43	48	52	56
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	0	SYSM	0-3	Standard Mode	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15															
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15		5	5	5	5	10	10	5	5	5	10	10	10	10	5
	6	SHOF	0-3		0	3	3	1	3	3	3	1	1	3	3	3	3	1
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		3	3	3	1	3	3	3	1	1	3	3	3	3	2
	9	F1LV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	LTLV	0-3		2	2	2	3	3	3	2	3	2	3	3	3	3	3
	11	LTMD	0, 1		1	1	1	0	1	1	1	0	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7		2	2	2	0	2	2	2	0	0	2	2	2	2	1
	14	UCOF	0-7		2	1	2	2	1	2	2	2	0	1	2	1	1	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		5	10	14	18	22	26	30	34	44	38	42	47	51	55

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Mode	RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
2170P_3																		
	0	SYSM	0-3	Movie Mode	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15															
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15		5	5	5	5	10	10	5	5	5	10	10	10	10	5
	6	SHOF	0-3		1	1	0	1	1	1	0	1	1	1	1	1	1	1
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	3	1	3	3	3	1	1	3	3	3	3	2
	9	F1LV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	LTLV	0-3		1	1	1	2	2	2	1	2	2	2	2	2	2	1
	11	LTMD	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	2	2	0	0	0	2	2	2	2	0
	13	UBOF	0-7		0	2	0	0	0	0	0	0	0	0	0	0	0	0
	14	UCOF	0-7		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		3	9	13	17	21	25	29	33	44	37	41	46	50	54
	0	SYSM	0-3	Pro Mode	1	1	2	1	3	3	2	1	1	3	3	3	3	2
	1	VMLV	0-15															
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	0	0	0	0	0	0	1	0	0	0	0	0
	5	VMDL	0-15		5	5	5	5	10	10	5	5	5	10	10	10	10	5
	6	SHOF	0-3		1	2	0	0	2	2	0	0	1	2	2	2	2	2
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	2	3	1	3	3	3	1	1	3	3	3	3	2
	9	F1LV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	LTLV	0-3		0	0	0	0	0	0	0	0	2	0	0	0	0	0
	11	LTMD	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	UBOF	0-7		2	2	2	1	1	1	2	1	0	1	1	1	1	2
	14	UCOF	0-7		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		0	8	12	16	20	24	28	32	44	36	40	45	49	53

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
2170P_3				Vivid	Standard	Movie	Pro
	17	VM	0-3	3	3	1	0
	18	VMH	0-15	15	15	12	12
	19	VMM	0-15	10	10	8	8
	20	VML	0-15	6	6	4	4
	21	VGAP	0-15	5			
	22	VGAS	0-15	0			
	23	VGAB	0-15	0			
	24	VGAC	0-15	0			
	25	VGAV	0-15	5			

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name: 2170P 4

No.	Item Name	Range	MS	Other
0	YCON	0, 1	0	1

No.	Item Name	Range	DRC	VDO (V5/V6)	VDO (DVI)	MS	PT
1	SPIC	0-15	7	7	7	0	7
2	SCOL	0-63	31	31	31	31	31
3	SHUE	0-63	31	31	31	31	31

No.	Item Name	Range	
4	SPIO	0-15	7
5	SCLO	0-15	7
6	SHUO	0-15	7

No.	Item Name	Range	Vivid	Standard	Movie	Pro
7	UPIC	0-63	63	48	39	31
8	UBRT	0-63	31	31	31	31
9	UCOL	0-63	35	31	31	31
10	UHUE	0-63	31	31	31	31
11	USHP	0-63	24	29	31	31
12	UTMP	0-3	2	1	0	1

No.	Item Name	Range	
13	RYR	0-15	8
14	RYB	0-15	9
15	GYR	0-15	9
16	GYB	0-15	6

No.	Item Name	Range		RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
17	GAMM	0-3	Vivid	2	2	2	3	3	3	2	3	0	3	3	3	3	3
			Standard	1	1	1	1	1	1	1	1	0	1	1	1	1	2
			Movie	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0

No.	Item Name	Range	GAMM (0)	GAMM (1)	GAMM (2)	GAMM (3)
18	GAMS	0-15	0	8	8	8
19	GAMR	0-15	0	4	8	12
20	GAMG	0-15	0	4	8	12
21	GAMB	0-15	0	4	8	12

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
2170P_4																			
	22	BLK	0-3	Vivid		3	3	3	3	3	3	3	3	0	3	3	3	3	3
				Standard		2	2	2	2	2	2	2	2	0	2	2	2	2	2
				Movie		0	0	1	0	1	0	1	0	0	1	0	1	1	0
				Pro		0	0	0	0	0	0	0	0	0	0	0	0	0	0

No.	Item Name	Range	BLK (0)	BLK (1)	BLK (2)	BLK (3)
23	DCTR	0-15	0	3	7	12
24	APED	0-3	0	0	1	2
25	DSBO	0-15	7	7	7	7
			0	1	0	1

No.	Item Name	Range	Initial Data
26	IDSW	0-7	0

No.	Item Name	Range	BLK (0)	BLK (1)	BLK (2)	BLK (3)
27	ABLM	0-3	0	1	0	1

No.	Item Name	Range	Others	Small Pic
28	ABLT	0-15	0	0

No.	Item Name	Range	Initial Data
29	SPOF	0-31	13

No.	Item Name	Range	BLK (0)	BLK (1)	BLK (2)	BLK (3)
30	DPSQ	0, 1	1	1	1	1

No.	Item Name	Range	Initial Data
31	LRGB	0-15	3

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
2170D_1	0	VPOS	0-63	25					
	1	VSIZ	0-63	27					
				1080iFULL	**Others**				
	2	VSZO	0-63	0	0				
				WideZoom	**Others**				
	3	VLIN	0-15	8	7				
	4	VSCO	0-15	10	9				
	5	VCEN	0-63	15					
				1080Vcomp 480Vcomp	**Others**				
	6	VPIN	0-63	15	13				
	7	MVPN	0-3	0					
	8	NSCO	0-63	31					
	9	HTPZ	0-31	15					
	10	MHTZ	0-3	0					
				WideZoom	**Zoom**	**Others**			
	11	ZOOM	0, 1	1	1	0			
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp**	**480Vcomp**
	12	APSW	0, 1	1	1	1	0	0	1
	13	ASPT	0-63	24	47	47	47	47	47
	14	SCRL	0-63	31	31	31	31	31	31
				WideZoom	**Others**				
	15	UVLN	0-15	4	0				
	16	LVLN	0-15	4	0				

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
2170D_2								
	0	HCNT	0-63	29				
				1080FULL **1080Vcomp**	**Others**			
	1	HPOS	0-63	34	34			
				WideZoom	**Others**			
	2	HSIZ	0-63	49	34			
	3	SLIN	0-15	10	1			
	4	MPIN	0-15	10	8			
	5	PIN	0-63	40	21			
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp** **480Vcomp**
	6	PINO	0-15	7	7	7	7	7
				WideZoom	**Others**			
	7	UCP	0-63	31	38			
	8	LCP	0-63	31	38			
	9	UXCG	0-3	1				
	10	LXCG	0-3	1				
	11	UXCP	0-3	2				
	12	LXCP	0-3	2				
	13	XCPP	0, 1	0				
				WideZoom	**Others**			
	14	PPHA	0-63	20	23			
	15	VANG	0-63	34				
	16	LANG	0-63	33				
	17	VBOW	0-63	25				
	18	LBOW	0-63	32				

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
2170D_3	0	HBLK	0, 1	1					
				1080FULL 1080Vcomp	**Others**				
	1	LBLK	0-63	50	51				
	2	RBLK	0-63	31	27				
				WideZoom	**Zoom**	**480FULL 1080FULL**	**480Vcomp 1080Vcomp**		
	3	VBLK	0, 1	0	0	1	1		
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp**	**480Vcomp**
	4	TBLK	0-15	7	7	4	4	10	8
	5	BBLK	0-15	7	7	8	6	14	13
				1080FULL 1080Vcomp	**Others**				
	6	AFCM	0-3	2	3				
				1080Vcomp 480Vcomp	**Others**				
	7	JUMP	0, 1	1	0				
				WideZoom	**Zoom**	**480Vcomp 480FULL**	**1080Vcomp 1080FULL**		
	8	VDJP	0, 1	1	1	0	1		
				1080Vcomp 1080FULL	**Others**				
	9	VDST	0, 1	0	0				
				WideZoom	**Zoom**	**480FULL 480Vcomp**	**1080FULL 1080Vcomp**		
	10	AKBT	0-31	15	15	22	16		

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
2170D_4						
				1080Vcomp		
				480Vcomp	Others	
	0	QPAM	0-63	25	25	
	1	QPAV	0-63	40	40	
	2	QPAP	0-15	7	7	
	3	QPDC	0-63	17	17	
	4	QPDV	0-63	47	47	
	5	QPDP	0-15	7	7	
	6	CPY1	0, 1	0		
	7	DF	0-63	37		
	8	DQP	0-63	37		
	9	DHMT	0, 1	0		
2170D_5	0	VFRQ	0-3	1		
	1	VON	0, 1	1		
	2	EWDC	0, 1	0		
	3	MS15	0, 1	0		
	4	HFRQ	0-255	80		
	5	HFRX	0-63	25		
	6	VMPS	0, 1	0		
	7	INTR	0, 1	0		
	8	VLNL	0-3	0		
	9	VLNH	0-255	0		
	10	AGCS	0, 1	0		

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
D_CONV						
				1080Vcomp 480Vcomp	Others	
	0	YBWU	0-63	26	26	
	1	YBWL	0-63	31	31	
	2	RSAP	0-63	47	47	
	3	RUBW	0-63	62	62	
	4	RUMB	0-63	63	63	
	5	RLBW	0-63	12	12	
	6	RLMB	0-63	63	63	
	7	LSAP	0-63	25	25	
	8	LUBW	0-63	63	63	
	9	LUMB	0-63	35	35	
	10	LLBW	0-63	2	2	
	11	LLMB	0-63	12	12	
	12	CADJ	0-63	29		
	13	CPY2	0, 1	0		
CXA2151	0	MTRX	0-3			
				PT	Others	
	1	GAIN	0-3	7	7	
				V5/V6	DVI	Others
	2	FIXS	0-3	0	0	0
				PT	Others	
	3	CBGN	0-15	7	7	
	4	CRGN	0-15	8	8	
	5	YGN	0-15	8	8	
	6	VTC	0-3	0		
	7	HTC	0, 1			
	8	HWID	0-3	1		
	9	HSEP	0, 1	1		
	10	HMSK	0, 1			
				V5/V6	DVI	Others
	11	FRGB	0, 1	0	0	0

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
MID1									
	0	DHPH	0-255	111					
	1	DVPH	0-63	20					
	2	DHAR	0-255	240					
	3	DVAR	0-255	135					
	4	DHPW	0-63	55					
	5	DVPW	0-7	5					
				Single		**Twin**	**Freeze**	**Favorite**	**Index**
				480i	**Others**				
	6	DYCD	0-63	3	0	2	2	2	2
				table-0	**table-1**	**table-2**	**table-3**		
	7	DYSD	0-7	7	4	2	1		
				Single				**Favorite**	**Index**
				VGA		**Others**		**VGA**	**VGA**
				Normal	**Others**	**Normal**	**Others**		
	8	MDHP	0-255		72		0	40	38
				Single			**Favorite**	**Index**	
				480i/480p	**VGA**	**Others**	**VGA**	**VGA**	
	9	MDVP	0-255	30	66	0	34	86	
				Single				**Favorite**	**Index**
				VGA		**Others**		**VGA**	**VGA**
				Normal	**Others**	**Normal**	**Others**		
	10	MDHS	0-255		204		240	155	116
				Single			**Favorite**	**Index**	
				480i/480p	**VGA**	**Others**	**VGA**	**VGA**	
	11	MDVS	0-255	120	102	135	103	77	

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
MID1							
				Twin/Freeze	**Favorite**	**Index**	
	12	MLHP	0-255	36	31	31	
	13	MLVP	0-255	8	30	41	
				Favorite			
	14	SDHP	0-255	167			
	15	SDVP	0-255	5			
	16	SDHS	0-255	115			
	17	SDVS	0-255	79			
	18	PDHP	0-255				
	19	PDVP	0-255				
	20	PDHS	0-255				
	21	PDVS	0-255				
				1080i Single	**Others**		
	22	DPSW	0, 1	0	0		
	23	MDLO	0-63	6			
				Single			
				Normal	**Others**	**MS**	**Others**
	24	BCOL	0-15		1	0	1
	25	DYSS	0-3	1			
				Index			
	26	OSDH	0-63	32			
	27	OSDV	0-63	16			

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
MID2								
					480i		YC	
					Normal	Others	Normal	Others
	0	DRHP	0-255	Single		120		117
	1	DRHS	0-255			180		180
	2	DRVP	0-63			37		37
	3	DRVS	0-255			120		120
					480i	YC		
	0	DRHP	0-255	Twin-Left	146	148		
	1	DRHS	0-255		164	164		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		
					YC			
	0	DRHP	0-255	Twin-Right	153			
	1	DRHS	0-255		164			
	2	DRVP	0-63		57			
	3	DRVS	0-255		110			
					480i	YC		
	0	DRHP	0-255	Freeze	153	153		
	1	DRHS	0-255		162	162		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
MID2								
				Favorite-Main		480i		YC	
						Full	Vcomp	Full	Vcomp
	0	DRHP	0-255		140	140	140	140
	1	DRHS	0-255		165	165	165	165
	2	DRVP	0-63		37	57	37	57
	3	DRVS	0-255		120	110	120	110
				Favorite-Sub	YC			
	0	DRHP	0-255		153			
	1	DRHS	0-255		171			
	2	DRVP	0-63		28			
	3	DRVS	0-255		118			
				Index-Main	480i		YC	
					Full	Vcomp	Full	Vcomp
	0	DRHP	0-255					
	1	DRHS	0-255					
	2	DRVP	0-63					
	3	DRVS	0-255					
				Index-Sub	YC			
	0	DRHP	0-255					
	1	DRHS	0-255					
	2	DRVP	0-63					
	3	DRVS	0-255					

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data										
MID3														
					1080i	720p	480p		480i		VGA			
							Normal	Others	Normal	Others	Normal	Others		
	0	VDHP	0-255	Single	74	94		106		208		119		
	1	VDHS	0-255		161	108		167		213		159		
	2	VDVE	0-63		19	24		37		17		34		
	3	VDVS	0-255		135	180		120		60		120		
					1080i	720p	480p	480i	VGA					
	0	VDHP	0-255	Twin-Left	95	111	134	208	148					
	1	VDHS	0-255		149	99	152	213	145					
	2	VDVE	0-63		43	54	57	27	45					
	3	VDVS	0-255		123	165	110	55	110					
					YC									
	0	VDHP	0-255	Twin-Right	200									
	1	VDHS	0-255		213									
	2	VDVE	0-63		27									
	3	VDVS	0-255		55									
					1080i	720p	480p	480i	VGA					
	0	VDHP	0-255	Freeze	102	114	139	208	148					
	1	VDHS	0-255		147	98	150	213	144					
	2	VDVE	0-63		43	54	57	27	45					
	3	VDVS	0-255		123	165	110	55	110					

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name: MID3

Favorite-Main

No.	Item Name	Range	1080i FULL	1080i Vcomp	720p -	480p FULL	480p Vcomp	480i FULL	480i Vcomp	VGA FULL	VGA Vcomp
0	VDHP	0-255	94	94	105	128	128	208	208	118	137
1	VDHS	0-255	149	149	100	153	153	213	213	159	159
2	VDVE	0-63	43	43	55	37	57	17	27	34	34
3	VDVS	0-255	123	123	165	120	110	60	55	120	120

Favorite-Sub

No.	Item Name	Range	YC
0	VDHP	0-255	205
1	VDHS	0-255	223
2	VDVE	0-63	13
3	VDVS	0-255	59

Index-Main

No.	Item Name	Range	1080i FULL	1080i Vcomp	720p -	480p FULL	480p Vcomp	480i FULL	480i Vcomp	VGA FULL	VGA Vcomp
0	VDHP	0-255									
1	VDHS	0-255									
2	VDVE	0-63									
3	VDVS	0-255									

Index-Sub

No.	Item Name	Range	YC
0	VDHP	0-255	
1	VDHS	0-255	
2	VDVE	0-63	
3	VDVS	0-255	

No.	Item Name	Range	YC	480i	1080i	720p	480p	VGA
4	VDVO	0-3	0	0	0	0	0	0
5	VCPO	0-255	95	90	40	40	70	70
6	VCWD	0-7	3	3	3	3	3	3
7	VYCD	0-63	0	0	0	0	0	0
8	VSTP	0-255	62	62	144	132	110	119
9	VSTT	0-15	0	0	0	0	0	0
10	VHSC	0-255	130	130	130	130	130	130
11	VFRV	0, 1	0	0	0	0	0	0

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	MHLY	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	1	1	1	2	3	3	3	0	0	2	1	0	0	1	1
	6	MHYL	0-3	0	1	1	1	1	2	2	2	0	1	2	1	0	0	2	2
	7	MHYE	0-7	0	2	2	5	6	7	7	7	0	2	4	7	0	0	2	7
	8	MHYO	0, 1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	MVYR	0-3	0	0	0	0	1	2	2	2	0	1	1	1	0	0	1	2
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	1	1	1	0	0	1	1
	15	MVYE	0-7	0	0	0	0	1	3	3	3	0	3	3	3	0	0	3	5
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	6	MHYL	0-3	1	1	1	1	1	1	1	1	1	1	1	1	0	0	2	2
	7	MHYE	0-7	4	2	2	3	2	4	5	7	2	4	7	7	0	0	2	7
	8	MHYO	0, 1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	1
	15	MVYE	0-7	0	1	3	1	0	0	4	4	0	0	4	4	0	0	3	5
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data															
MID5	0	POP	0-63	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	MHYL	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	7	MHYE	0-7	4	2	2	3	2	4	5	7	2	4	7	7	3	0	0	0
	8	MHYO	0, 1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
	14	MVYL	0-3	0	1	0	1	0	0	1	1	0	0	1	1	1	0	0	0
	15	MVYE	0-7	0	1	0	1	0	0	4	4	0	0	4	4	1	0	0	0
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	0	POP	0-63	48	49	50	51	52	53	54	55	56							
	1	MHLY	0-3	0	0	0	0	0	0	0	0	0							
	2	MHLC	0-3	0	0	0	0	0	0	0	0	0							
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0							
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0							
	5	MHYR	0-3	0	0	0	0	0	0	0	0	0							
	6	MHYL	0-3	0	1	1	1	1	0	0	0	0							
	7	MHYE	0-7	0	2	4	5	7	0	0	0	0							
	8	MHYO	0, 1	0	0	0	0	0	0	0	0	0							
	9	MHCR	0-3	0	0	0	1	1	0	0	0	0							
	10	MHCL	0-3	0	0	0	1	1	0	0	0	0							
	11	MHCE	0-7	0	0	0	4	4	0	0	0	0							
	12	MHCO	0-1	0	0	0	1	1	0	0	0	0							
	13	MVYR	0-3	0	0	0	0	0	0	0	0	0							
	14	MVYL	0-3	0	0	0	1	1	0	0	0	0							
	15	MVYE	0-7	0	0	0	4	4	0	0	0	0							
	16	MVCR	0-3	0	0	0	1	1	0	0	0	0							
	17	MVCL	0-3	0	0	0	1	1	0	0	0	0							
	18	MVCE	0-7	0	0	0	4	4	0	0	0	0							

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
MID5				MS
	19	SHLY	0-7	0
	20	SHLC	0-7	0
	21	SVLY	0-7	0
	22	SVLC	0-7	0
	23	SHYR	0-3	0
	24	SHYL	0-3	0
	25	SHYE	0-7	0
	26	SHYO	0, 1	0
	27	SHCR	0-3	0
	28	SHCL	0-3	0
	29	SHCE	0-7	0
	30	SHCO	0, 1	0
	31	SVYR	0-3	0
	32	SVYL	0-3	0
	33	SVYE	0-7	0
	34	SVCR	0-3	0
	35	SVCL	0-3	0
	36	SVCE	0-7	0

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
CXA3506R						
	0	MCON	0, 1			
	1	SCOR	0-255			
	2	SCOG	0-255			
	3	SCOB	0-255			
	4	RGB	0-255			
AUDIO						
	0	ASYS	0, 1	1		
	1	TRCV	0-3	2		
	2	BACV	0-3	0		
	3	MDCV	0-3	2		
	4	SVHI	0-7	4		
	5	SVLO	0-7	6		
	6	MDFQ	0-15	7		
	7	LOFQ	0-7	1		
	8	SBAS	0-15	8		
	9	BSFQ	0-15	0		
	10	STRE	0-15	8		
	11	TRFQ	0-15	7		
	12	PSEF	0-15	5		
	13	AGCL	0-15	3		
				TruSurround	Simulated	SteadySound
	14	BBE	0, 1	1	1	1
	15	BBEP	0-7	4	4	4
	16	BBEL	0-7	2	2	2
	17	BB2P	0-7	4	4	4
	18	BB2L	0-7	2	2	2
	19	TRS1	0-7	4		
	20	TRS2	0-7	2		

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data							
SNNR	0	MODE	0-3	0							
	1	SNNR	0-7	0							
				A	B	C	D	E	F	G	
	2	WSLT	0-255	15	31	45	63	85	110	127	
				0	1	2	3	4	5	6	7
	3	CPFG	0-15	0	0	1	1	2	2	2	3
	4	CPFT	0-3	0	0	0	0	0	0	0	0
	5	CCOR	0-3	0	0	1	1	1	1	1	1
	6	CHCG	0, 1	0	1	1	1	1	1	1	1
	7	CAPG	0-7	0	0	0	0	0	0	0	0
	8	3SHP	0-15	0	0	1	1	2	2	2	3
	9	NYNR	0-15	0	1	2	2	3	3	4	4
	10	NCNR	0-15	0	1	2	2	3	3	4	4
	11	NYMG	0-3	0	0	0	0	0	0	0	0
	12	NCMG	0-3	0	0	0	0	0	0	0	0
	13	NYLT	0-15	0	1	1	2	3	4	6	8
	14	NYNC	0-15	0	0	2	2	3	3	4	4
	15	NYCO	0, 1	0	0	1	1	1	1	1	1
	16	7SHP	0-63	0	0	1	1	3	3	3	4
	17	7YF1	0-3	0	0	1	1	2	2	2	3
	18	7LTI	0-3	0	0	0	0	0	0	0	0
	19	7CTI	0-3	0	0	0	0	0	0	0	0
	20	7VML	0-15	0	0	0	0	0	0	0	0
	21	7VMC	0-3	0	0	1	1	2	2	2	3
	22	MIDD	0-63	0	0	1	1	2	2	2	3

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
CCD				
	0	HPRM	0-255	60
	1	HPRS	0-255	60
	2	YSYM	0, 1	0
	3	CCDI	0-7	3
	4	CRIP	0-7	4
	5	PHLD	0, 1	0
	6	CHMK	0-63	54
	7	LANG	0-15	0
	8	DATA	0, 1	0
	9	VCHP	0, 1	0
	10	CLMP	0, 1	0
	11	SYSV	0-7	4
	12	ID1	0, 1	1
	13	ID1M	0-7	1
	14	FPOL	0, 1	0
	15	BWHT	0, 1	0
	16	MESH	0, 1	0
	17	BNBB	0-3	1
	18	BNBG	0-3	1
	19	BNBR	0-3	0
	20	CMP1	0-7	2
	21	CMP2	0-7	5
	22	CMP3	0-7	3
	23	CWHT	0-7	3
	24	VSDW	0, 1	1
	25	BFRQ	0, 1	0
	26	BPOS	0, 1	0
	27	BFRM	0, 1	1
	28	BTIM	0, 1	0

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
3DNR	0	**WHCT**	0-63	44
	1	**NIQM**	0, 1	1
	2	**CLPW**	0-63	30
	3	**CLPP**	0-255	80
	4	**YHBW**	0-255	138
	5	**YBKL**	0-15	0
	6	**YBKO**	0, 1	0
	7	**MUTE**	0, 1	0
	8	**YHBS**	0-127	40
	9	**CHBW**	0-255	138
	10	**CBKO**	0-127	40
	11	**CHBO**	0, 1	0
	12	**VHBL**	0-15	0
	13	**UHBL**	0-15	0
	14	**UVDL**	0-7	0
	15	**YDL**	0-7	0
	16	**PVDI**	0, 1	0
	17	**PHDI**	0, 1	0
	18	**HDW**	0-63	16
	19	**PVDO**	0, 1	0
	20	**PHDO**	0, 1	0
	21	**HST**	0-255	54
	22	**VDL**	0-15	0
	23	**VDW**	0-15	44
	24	**NDET**	0-15	1
	25	**NVP**	0-15	30
	26	**NDTS**	0-3	80
	27	**HROF**	0, 1	138
	28	**NDGW**	0-15	0
	29	**UOFS**	0-7	2
	30	**POT**	0-3	0
	31	**UVF**	0, 1	40
	32	**APC**	0, 1	138
	33	**DAP**	0, 1	40

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR					Others	480i
	34	YLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	35	YST	0, 1	0		
	36	YNT	0, 1	1		
	37	YPL	0, 1	1		
	38	YMV	0, 1	0		
					Others	480i
	39	YCR	0-31	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	40	VOS	0-7	2		
					Others	480i
	41	YMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	42	YEG	0, 1	1		
					Others	480i
	43	YEL	0-15	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	44	YLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR					Others	480i
	45	CLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	46	CNT	0, 1	1		
	47	CPL	0, 1	1		
					Others	480i
	48	CMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
					Others	480i
	49	CCR	0-31	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	50	CLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
	51	NVSL	0-255	20		
	52	NVSH	0, 1	0		
	53	NHS	0-127	16		
	54	NVEL	0-255	244		
	55	NVEH	0, 1	0		
	56	NHE	0-127	120		
					Others	480i
	57	YNG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR					Others	480i
	58	COR	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	59	LPF	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	60	YLT	0-15	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	61	YNC	0-15	Vivid	15	15
				Standard	10	10
				Movie		10
				Pro	8	8
					Others	480i
	62	YCO	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
	63	ADTH	0, 1	0		

KV-32HS510/34DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
DRCV	0	MFVR	0, 1	
	1	ISEL	0, 1	
	2	ORES	0-255	
	3	ONCT	0-255	
	4	AINI	0-127	
	5	BINI	0-127	
	6	FMAT	0, 1	
	7	FMTH	0-3	
	8	FSEL	0, 1	
	9	CDLY	0-3	
	10	LMIT	0, 1	
	11	LMLV	0-3	
	12	LMSL	0, 1	
	13	VDLY	0-3	
	14	VDPR	0-3	
	15	WPLL	0-3	
	16	CRCT	0, 1	
	17	NRA	0-255	
	18	NRB	0-255	
OP	0	DLY1	0-31	4
	1	DLY2	0-31	12
	2	DLY3	0-15	7
	3	OSDH	0-255	20
	4	HDPT	0, 1	1
	5	MSBG	0-255	0
	6	AACK	0-3	2
	7	RAMW	0-3	0

4-4.2. KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
VERSION	0	VER	0,1	0
	1	DMY1	0-255	0
3D_COMB	0	NRMD	0-3	0
	1	CLKS	0-3	1
	2	NSDS	0-3	0
	3	MSS	0-3	0
	4	KILS	0-3	1
	5	FRZE	0, 1	0
	6	EXCS	0-3	1
	7	CDL	0-7	4

	No.	Item Name	Range	NRMD(0)	NRMD(1)	NRMD(2)	NRMD(3)
	8	DYCO	0-15	2	2	2	2
	9	DYGA	0-15	10	10	10	10
	10	DCCO	0-15	5	5	5	5
	11	DCGA	0-15	5	5	5	5

	No.	Item Name	Range	Initial Data
	12	WSC	0-2	1
	13	WSS	0, 1	0

	No.	Item Name	Range	Vivid	Standard	Movie	Pro
	14	VAPG	0-7	4	2	2	0
	15	VAPI	0-31	4	4	4	0

	No.	Item Name	Range	Initial Data
	16	TEST	0, 1	0

				Vivid	Standard			Movie		Pro		TWIN
	No.	Item Name	Range	RF	CV/YC	RF	CV/YC	RF	CV/YC	RF	CV/YC	Any
	17	YPFT	0-3	3	3	3	3	3	3	3	3	3
	18	YPFG	0-15	9	5	7	5	5	6	5	5	6

	No.	Item Name	Range	Initial Data
	19	SEDC	0, 1	0
	20	SEDY	0, 1	1
	21	YHCO	0-3	1
	22	YHCG	0, 1	0
	23	SYSP	0-3	0
	24	TES2	0-7	0

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
2103_1								
				480i	Others			
	0	YLEV	0-62	34	20			
	1	CLEV	0-63	40	17			
				RF	CV/YC			
	2	SCON	0-15	9	9			
	3	SCOL	0-15	2	2			
	4	SHUE	0-15	11	5			
	5	YDLY	0-3	0	0			
				RF	CV	V5	YC	
	6	SHAP	0-15	9	8	4	8	
	7	SHF0	0-3	0	0	3	0	
	8	PREO	0-3	3	3	3	3	
	9	BPF0	0-3	3				
	10	BPFQ	0-3	0				
				RF	CV/YC			
	11	BPSW	0, 1	1	0			
	12	TRAP	0, 1	0				
	13	LPF	0, 1	1				
				RF	CV/YC	Others		
	14	AFCG	0, 1	1	0	0		
	15	CDMD	0-3	3	3	3		
	16	SSMD	0-3	0	0	0		
				RF	CV/YC	V5/V6	DVI	
	17	HMSK	0, 1	0	1	1	0	
	18	HALI	0, 1	0				
				RF	CV/YC	V5/V6	DVI	
	19	PPHA	0-15	7	7	7	0	
				RF	V5/V6			
	20	CBO1	0-63	34	36			
	21	CRO1	0-63	32	38			
	22	CBO2	0-63	32				
	23	CRO2	0-63	32				
				Single	BLK(0)	BLK(1)	BLK(2)	BLK(3)
	24	ATPD	0-3	0	1	1	2	1
	25	DCTR	0-3	0	2	1	3	2

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
2103_2					
				DRC	VDO
	0	YLEV	0-63	41	35
	1	CLEV	0-63	31	42
				RF	CV/YC
	2	SCON	0-15	9	9
	3	SCOL	0-15	2	2
	4	SHUE	0-15	11	5
	5	YDLY	0-3	0	0
	6	SHAP	0-15	6	8
	7	SHF0	0-3	0	0
	8	PREO	0-3	3	3
	9	BPF0	0-3	3	
	10	BPFQ	0-3	0	
				RF	CV/YC
	11	BPSW	0, 1	1	0
	12	TRAP	0, 1	0	
				DRC	VDO
	13	LPF	0, 1	1	0
				RF	CV/YC
	14	AFCG	0, 1	1	0
	15	CDMD	0-3	3	3
	16	SSMD	0-3	0	0
	17	HMSK	0, 1	0	1
	18	HALI	0, 1	0	
				RF	CV/YC
	19	PPHA	0-15	7	7
	20	CBO1	0-63	34	
	21	CRO1	0-63	32	

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data								
2170P_1												
				CV/YC	480i	VDO	MS	PT				
	0	YOSW	0, 1	1	0	0	0	0				
	1	TCOF	0, 1	0								
									DVI	DVI		
				DRC	DRC	V5/V6	V5/V6	V5/V6	480p	720p	PT	
				CV/YC	480i	480p	720p	1080i	VGA	1080i	1080i	MS
	2	YOF	0-15	0	15	7	7	7	7	7	7	7
	3	CBOF	0-63	31	31	31	31	31	31	31	31	31
	4	CROF	0-63	31	31	31	31	31	31	31	31	31
	5	SBRT	0-63	31								
	6	RDRV	0-63	32								
	7	GDRV	0-63	35								
	8	BDRV	0-63	34								
	9	RCUT	0-63	32								
	10	GCUT	0-63	35								
	11	BCUT	0-63	18								
				WARM	COOL							
	12	WBSW	0, 1	1								
	13	SBOF	0-15	7	7							
	14	RDOF	0-63	31	31							
	15	GDOF	0-63	34	31							
	16	BDOF	0-63	45	34							
	17	RCOF	0-63	31	31							
	18	GCOF	0-63	37	31							
	19	BCOF	0-63	63	34							
	20	DCOL	0-3	1								

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
2170P_2	0	PICO	0, 1	1	
	1	RGBS	0-7	7	
	2	BLKB	0-3	3	
	3	RGBL	0-3	2	
	4	YLMT	0-3	3	
	5	AGNG	0-3	0	
	6	AKBO	0, 1	0	
				Other	PT
	7	CLPP	0-3	3	3
	8	CLPG	0, 1	0	0
	9	CLPS	0, 1	0	0
	10	PPAD	0-7	3	3
	11	SYNP	0, 1	0	0
	12	HVBT	0, 1	0	

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data													
2170P_3							Comp	Comp	Comp	Comp	DVI	DVI	DVI	DVI	DVI	MS	MS	
				RF	CV/YC	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Menu	Single	Twin
ViVid Mode	0	SYSM	0-3	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15	7													
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3	1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15	5	5	5	5	13	13	5	5	5	13	13	13	13	10
	6	SHOF	0-3	2	2	2	1	1	1	2	1	0	1	1	1	1	2
	7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3	0	3	2	0	3	3	2	0	0	3	3	3	3	3
	9	F1LV	0-3	1	0	1	0	0	1	1	0	1	0	1	0	0	0
	10	LTLV	0-3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	11	LTMD	0, 1	1	1	1	0	1	0	1	0	1	1	0	1	1	1
	12	CTLV	0-3	0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7	0	0	0	1	1	1	0	1	0	1	1	1	1	1
	14	UCOF	0-7	2	2	2	2	2	2	2	2	2	2	2	0	0	2
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63	7	11	15	19	23	27	31	35	44	39	43	48	52	56
							Comp	Comp	Comp	Comp	DVI	DVI	DVI	DVI	DVI	MS	MS	
				RF	CV/YC	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Menu	Single	Twin
Standard Mode	0	SYSM	0-3	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15	7													
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3	1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15	5	5	5	5	13	13	5	5	5	13	13	13	13	10
	6	SHOF	0-3	3	3	2	0	1	1	2	0	0	1	1	1	1	2
	7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3	0	3	2	0	3	3	2	0	0	3	3	3	3	3
	9	F1LV	0-3	0	0	1	1	0	0	1	1	1	0	0	0	0	0
	10	LTLV	0-3	2	2	2	3	3	3	2	3	3	3	3	3	3	3
	11	LTMD	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3	0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7	2	2	2	0	2	2	2	0	0	2	2	2	2	1
	14	UCOF	0-7	1	1	2	2	1	2	2	2	2	1	2	0	0	0
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63	5	10	14	18	22	26	30	34	44	38	42	47	51	55

KV-34HS510 SERVICE DATA LISTS

2170P_3 — Movie Mode

Category Name	No.	Item Name	Range	RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	0	SYSM	0-3	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15	7													
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3	1	1	1	1	0	0	1	1	1	0	0	0	0	0
	5	VMDL	0-15	5	5	5	5	13	13	5	5	5	13	13	13	13	10
	6	SHOF	0-3	1	1	1	1	1	1	1	1	0	1	1	1	1	1
	7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3	0	3	2	1	3	3	2	1	0	3	3	3	3	3
	9	F1LV	0-3	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3	1	1	1	2	1	1	1	2	3	1	1	1	1	1
	11	LTMD	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3	0	0	0	0	2	2	0	0	0	2	2	2	2	0
	13	UBOF	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	UCOF	0-7	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63	3	9	13	17	21	25	29	33	44	37	41	46	50	54

2170P_3 — Pro Mode

Category Name	No.	Item Name	Range	RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	0	SYSM	0-3	1	1	2	1	3	3	2	1	1	3	3	3	3	2
	1	VMLV	0-15	7													
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3	1	1	0	0	0	0	0	0	1	0	0	0	0	0
	5	VMDL	0-15	5	5	8	5	13	13	8	5	5	13	13	13	13	10
	6	SHOF	0-3	1	2	2	0	2	1	2	0	0	2	1	2	2	1
	7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3	0	2	3	1	3	3	3	1	0	3	3	3	3	3
	9	F1LV	0-3	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3	0	0	0	0	0	0	0	0	3	0	0	0	0	0
	11	LTMD	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	UBOF	0-7	2	2	2	1	1	1	2	1	0	1	1	1	1	2
	14	UCOF	0-7	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63	0	8	12	16	20	24	28	32	44	36	40	45	49	53

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
2170P_3							
				Vivid	Standard	Movie	Pro
	17	VM	0-3	3	3	1	0
	18	VMH	0-15	15	15	12	12
	19	VMM	0-15	10	10	8	8
	20	VML	0-15	6	6	4	4
	21	VGAP	0-15	5			
	22	VGAS	0-15	0			
	23	VGAB	0-15	0			
	24	VGAC	0-15	0			
	25	VGAV	0-15	5			

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
2170P_4								
				MS	Other			
	0	YCON	0, 1	0	1			
				DRC	VDO(V5/V6)	VDO (DVI)	MS	PT
	1	SPIC	0-15	7	7	7	0	7
	2	SCOL	0-63	31	31	31	31	31
	3	SHUE	0-63	31	31	31	31	31
	4	SPIO	0-15	7				
	5	SCLO	0-15	7				
	6	SHUO	0-15	7				
				Vivid	Standard	Movie	Pro	
	7	UPIC	0-63	63	48	39	31	
	8	UBRT	0-63	31	31	31	31	
	9	UCOL	0-63	35	31	31	31	
	10	UHUE	0-63	31	31	31	31	
	11	USHP	0-63	24	29	31	31	
	12	UTMP	0-3	2	1	0	1	
	13	RYR	0-15	8				
	14	RYB	0-15	9				
	15	GYR	0-15	9				
	16	GYB	0-15	6				

No. 17 — GAMM (Range 0-3)

	RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
Vivid	3	2	3	3	3	3	2	3	3	3	3	3	3	3
Standard	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Movie	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0

No.	Item Name	Range	GAMM (0)	GAMM (1)	GAMM (2)	GAMM (3)
18	GAMS	0-15	0	8	8	8
19	GAMR	0-15	0	4	8	12
20	GAMG	0-15	0	4	8	12
21	GAMB	0-15	0	4	8	12

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data														
2170P_4																		
					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	22	BLK	0-3	Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	3
				Standard	2	2	2	2	2	2	2	2	2	2	2	3	2	2
				Movie	0	0	1	0	1	0	1	0	0	1	0	0	1	0
				Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				BLK (0)	BLK (1)	BLK (2)	BLK (3)											
	23	DCTR	0-15	0	3	7	12											
	24	APED	0-3	0	0	1	2											
	25	DSBO	0-15	7	7	7	7											
				0	1	0	1											
	26	IDSW	0-7	0														
				BLK (0)	BLK (1)	BLK (2)	BLK (3)											
	27	ABLM	0-3	0	1	0	1											
				Others	Small Pic													
	28	ABLT	0-15	0	7													
	29	SPOF	0-31	0														
				BLK (0)	BLK (1)	BLK (2)	BLK (3)											
	30	DPSQ	0, 1	1	1	1	1											
	31	LRGB	0-15	3														

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
2170D_1	0	VPOS	0-63	31					
	1	VSIZ	0-63	30					
				1080iFULL	**Others**				
	2	VSZO	0-63	0	0				
				WideZoom	**Others**				
	3	VLIN	0-15	8	8				
	4	VSCO	0-15	10	9				
	5	VCEN	0-63	31					
				1080Vcomp 480Vcomp	**Others**				
	6	VPIN	0-63	15	15				
	7	MVPN	0-3	0					
	8	NSCO	0-63	31					
	9	HTPZ	0-31	15					
	10	MHTZ	0-3	0					
				WideZoom	**Zoom**	**Others**			
	11	ZOOM	0, 1	1	1	0			
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp**	**480Vcomp**
	12	APSW	0, 1	1	1	1	0	0	1
	13	ASPT	0-63	22	43	3	0	47	3
	14	SCRL	0-63	31	31	31	31	31	31
				WideZoom	**Others**				
	15	UVLN	0-15	4	0				
	16	LVLN	0-15	4	0				

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
2170D_2								
	0	HCNT	0-63	31				
				1080FULL **1080Vcomp**	**Others**			
	1	HPOS	0-63	31	31			
				WideZoom	**Others**			
	2	HSIZ	0-63	49	40			
	3	SLIN	0-15	10	4			
	4	MPIN	0-15	10	8			
	5	PIN	0-63	40	31			
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp** **480Vcomp**
	6	PINO	0-15	7	7	7	7	7
				WideZoom	**Others**			
	7	UCP	0-63	31	35			
	8	LCP	0-63	31	35			
	9	UXCG	0-3	0				
	10	LXCG	0-3	0				
	11	UXCP	0-3	2				
	12	LXCP	0-3	2				
	13	XCPP	0, 1	0				
				WideZoom	**Others**			
	14	PPHA	0-63	20	20			
	15	VANG	0-63	31				
	16	LANG	0-63	31				
	17	VBOW	0-63	31				
	18	LBOW	0-63	31				

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
2170D_3									
	0	HBLK	0, 1	1					
				1080FULL 1080Vcomp	**Others**				
	1	LBLK	0-63	50	51				
	2	RBLK	0-63	31	27				
				WideZoom	**Zoom**	**480FULL 1080FULL**	**480Vcomp 1080Vcomp**		
	3	VBLK	0, 1	0	0	1	1		
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp**	**480Vcomp**
	4	TBLK	0-15	12	7	4	4	10	2
	5	BBLK	0-15	15	7	8	6	14	8
				1080FULL 1080Vcomp	**Others**				
	6	AFCM	0-3	2	3				
				1080Vcomp 480Vcomp	**Others**				
	7	JUMP	0, 1	0	0				
				WideZoom	**Zoom**	**480Vcomp 480FULL**	**1080Vcomp 1080FULL**		
	8	VDJP	0, 1	1	1	0	1		
				1080Vcomp 1080FULL	**Others**				
	9	VDST	0, 1	0	0				
				WideZoom	**Zoom**	**480FULL 480Vcomp**	**1080FULL 1080Vcomp**		
	10	AKBT	0-31	15	15	22	16		

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
2170D_4					
				1080Vcomp	
				480Vcomp	Others
	0	QPAM	0-63	30	30
	1	QPAV	0-63	47	47
	2	QPAP	0-15	6	6
	3	QPDC	0-63	33	33
	4	QPDV	0-63	63	63
	5	QPDP	0-15	6	6
	6	CPY1	0, 1	0	
	7	DF	0-63	39	
	8	DQP	0-63	37	
	9	DHMT	0, 1	0	
2170D_5	0	VFRQ	0-3	1	
	1	VON	0, 1	1	
	2	EWDC	0, 1	0	
	3	MS15	0, 1	0	
	4	HFRQ	0-255	80	
	5	HFRX	0-63	25	
	6	VMPS	0, 1	0	
	7	INTR	0, 1	0	
	8	VLNL	0-3	0	
	9	VLNH	0-255	0	
	10	AGCS	0, 1	0	

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
D_CONV						
				1080Vcomp		
				480Vcomp	Others	
	0	YBWU	0-63	31	31	
	1	YBWL	0-63	31	31	
	2	RSAP	0-63	31	31	
	3	RUBW	0-63	31	31	
	4	RUMB	0-63	31	31	
	5	RLBW	0-63	31	31	
	6	RLMB	0-63	31	31	
	7	LSAP	0-63	31	31	
	8	LUBW	0-63	31	31	
	9	LUMB	0-63	31	31	
	10	LLBW	0-63	31	31	
	11	LLMB	0-63	31	31	
	12	CADJ	0-63	29		
	13	CPY2	0, 1	0		
CXA2151	0	MTRX	0-3			
				PT	Others	
	1	GAIN	0-3	7	7	
				V5/V6	DVI	Others
	2	FIXS	0-3	0	0	0
				PT	Others	
	3	CBGN	0-15	7	7	
	4	CRGN	0-15	8	8	
	5	YGN	0-15	8	8	
	6	VTC	0-3	0		
	7	HTC	0, 1			
	8	HWID	0-3	1		
	9	HSEP	0, 1	1		
	10	HMSK	0, 1			
				V5/V6	DVI	Others
	11	FRGB	0, 1	0	0	0

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
MID1									
	0	DHPH	0-255	109					
	1	DVPH	0-63	20					
	2	DHAR	0-255	240					
	3	DVAR	0-255	135					
	4	DHPW	0-63	55					
	5	DVPW	0-7	5					
				Single		Twin	Freeze	Favorite	Index
				480i	Others				
	6	DYCD	0-63	3	0	2	2	2	2
				table-0	table-1	table-2	table-3		
	7	DYSD	0-7	7	4	2	1		
				Single				Favorite	Index
				VGA		Others		VGA	VGA
				Normal	Others	Normal	Others		
	8	MDHP	0-255	174	72	156	0	40	41
				Single			Favorite	Index	
				480i/480p	VGA	Others	VGA	VGA	
	9	MDVP	0-255	30	66	0	34	86	
				Single				Favorite	Index
				VGA		Others		VGA	VGA
				Normal	Others	Normal	Others		
	10	MDHS	0-255		204		240	155	119
				Single			Favorite	Index	
				480i/480p	VGA	Others	VGA	VGA	
	11	MDVS	0-255	120	102	135	103	77	
				Twin/Freeze	Favorite	Index			
	12	MLHP	0-255	36	31	31			
	13	MLVP	0-255	8	30	30			

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
MID1							
				Favorite			
	14	SDHP	0-255	167			
	15	SDVP	0-255	5			
	16	SDHS	0-255	115			
	17	SDVS	0-255	79			
	18	PDHP	0-255				
	19	PDVP	0-255				
	20	PDHS	0-255				
	21	PDVS	0-255				
				1080i Single	**Others**		
	22	DPSW	0, 1	0	0		
	23	MDLO	0-63	12			
				Single			**Others**
				Normal	**Others**	**MS**	
	24	BCOL	0-15	1	1	0	1
	25	DYSS	0-3	1			
				Index			
	26	OSDH	0-63	32			
	27	OSDV	0-63	16			

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
MID2								
				Single	**480i**		**YC**	
					Normal	**Others**	**Normal**	**Others**
	0	DRHP	0-255		153	120	154	117
	1	DRHS	0-255		162	180	162	180
	2	DRVP	0-63		37	37	37	37
	3	DRVS	0-255		120	120	120	120
				Twin-Left	**480i**	**YC**		
	0	DRHP	0-255		146	148		
	1	DRHS	0-255		164	164		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		
				Twin-Right	**YC**			
	0	DRHP	0-255		153			
	1	DRHS	0-255		164			
	2	DRVP	0-63		57			
	3	DRVS	0-255		110			
				Freeze	**480i**	**YC**		
	0	DRHP	0-255		153	153		
	1	DRHS	0-255		162	162		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		
				Favorite-Main	**480i**		**YC**	
					Full	**Vcomp**	**Full**	**Vcomp**
	0	DRHP	0-255		140	140	140	140
	1	DRHS	0-255		165	165	165	165
	2	DRVP	0-63		37	57	37	57
	3	DRVS	0-255		120	110	120	110
				Favorite-Sub	**YC**			
	0	DRHP	0-255		153			
	1	DRHS	0-255		171			
	2	DRVP	0-63		28			
	3	DRVS	0-255		118			

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data							
MID2											
					480i		**YC**				
					Full	**Vcomp**	**Full**	**Vcomp**			
	0	DRHP	0-255	**Index-Main**	140	140	140	140			
	1	DRHS	0-255		165	165	165	155			
	2	DRVP	0-63		37	57	37	57			
	3	DRVS	0-255		120	110	120	110			
					YC						
	0	DRHP	0-255	**Index-Sub**	158						
	1	DRHS	0-255		162						
	2	DRVP	0-63		57						
	3	DRVS	0-255		110						
MID3											
					1080i	**720p**	**480p**		**480i**		**VGA**	
							Normal	**Others**	**Normal**	**Others**	**Normal**	**Others**
	0	VDHP	0-255	**Single**	107	137	200	152	76	56	170	170
	1	VDHS	0-255		240	161	216	240	162	180	229	229
	2	VDVE	0-63		19	24	37	37	17	17	34	34
	3	VDVS	0-255		135	180	120	120	60	60	120	120
					1080i	**720p**	**480p**	**480i**	**VGA**			
	0	VDHP	0-255	**Twin-Left**	141	163	192	71	213			
	1	VDHS	0-255		221	147	219	164	209			
	2	VDVE	0-63		43	54	57	27	45			
	3	VDVS	0-255		123	165	110	55	110			
					YC							
	0	VDHP	0-255	**Twin-Right**	73							
	1	VDHS	0-255		164							
	2	VDVE	0-63		27							
	3	VDVS	0-255		55							
					1080i	**720p**	**480p**	**480i**	**VGA**			
	0	VDHP	0-255	**Freeze**	151	169	200	74	212			
	1	VDHS	0-255		218	145	216	162	208			
	2	VDVE	0-63		43	54	57	27	45			
	3	VDVS	0-255		123	165	110	55	110			

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data									
MID3													
				Favorite-Main	**1080i**		**720p**	**480p**		**480i**		**VGA**	
					FULL	**Vcomp**	**-**	**FULL**	**Vcomp**	**FULL**	**Vcomp**	**FULL**	**Vcomp**
	0	VDHP	0-255		136	136	158	184	184	68	68	169	169
	1	VDHS	0-255		222	222	148	220	220	165	165	229	229
	2	VDVE	0-63		43	43	55	37	57	17	27	34	34
	3	VDVS	0-255		123	123	165	120	110	60	55	120	120
				Favorite-Sub	**YC**								
	0	VDHP	0-255		75								
	1	VDHS	0-255		171								
	2	VDVE	0-63		13								
	3	VDVS	0-255		59								
				Index-Main	**1080i**		**720p**	**480p**		**480i**		**VGA**	
					FULL	**Vcomp**	**-**	**FULL**	**Vcomp**	**FULL**	**Vcomp**	**FULL**	**Vcomp**
	0	VDHP	0-255		136	136	158	184	184	68	68	169	169
	1	VDHS	0-255		222	222	148	220	220	165	165	229	229
	2	VDVE	0-63		43	43	55	37	57	17	27	34	34
	3	VDVS	0-255		123	123	165	120	110	60	55	120	120
				Index-Sub	**YC**								
	0	VDHP	0-255		76								
	1	VDHS	0-255		162								
	2	VDVE	0-63		27								
	3	VDVS	0-255		55								
					YC	**480i**	**1080i**	**720p**	**480p**	**VGA**			
	4	VDVO	0-3		0	0	0	0	0	0			
	5	VCPO	0-255		42	42	72	88	122	122			
	6	VCWD	0-7		1	1	3	3	3	3			
	7	VYCD	0-63		0	0	0	0	0	0			
	8	VSTP	0-255		62	62	136	183	126	129			
	9	VSTT	0-15		0	0	0	0	0	0			
	10	VHSC	0-255		130	130	130	130	130	130			
	11	VFRV	0, 1		0	0	0	0	0	0			

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	MHLY	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	1	1	1	2	3	3	2	0	0	2	1	0	0	1	1
	6	MHYL	0-3	0	1	1	1	1	2	2	2	0	1	2	1	0	0	1	2
	7	MHYE	0-7	0	2	2	5	6	7	7	7	0	2	4	7	0	0	7	7
	8	MHYO	0, 1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	MVYR	0-3	0	0	0	0	1	2	2	2	0	1	1	1	0	0	1	2
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	1	1	1	0	0	1	2
	15	MVYE	0-7	0	0	0	0	1	1	1	1	0	3	3	3	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	2
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	0	0	7	7
	8	MHYO	0, 1	1	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	2
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	2	0	0	0
	8	MHYO	0, 1	1	1	1	1	0	0	0	1	0	0	0	0	1	0	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	1	0	0	0
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	1	0	0	0
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	0	POP	0-63	48	49	50	51	52	53	54	55	56							
	1	MHLY	0-3	0	0	0	0	0	0	0	0	0							
	2	MHLC	0-3	0	0	0	0	0	0	0	0	0							
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0							
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0							
	5	MHYR	0-3	0	0	0	0	0	0	0	0	0							
	6	MHYL	0-3	0	0	1	1	1	0	0	0	0							
	7	MHYE	0-7	0	0	4	2	5	0	0	0	0							
	8	MHYO	0, 1	0	0	0	0	0	0	0	0	0							
	9	MHCR	0-3	0	0	0	1	1	0	0	0	0							
	10	MHCL	0-3	0	0	0	1	1	0	0	0	0							
	11	MHCE	0-7	0	0	0	2	2	0	0	0	0							
	12	MHCO	0-1	0	0	0	1	1	0	0	0	0							
	13	MVYR	0-3	0	0	0	0	0	0	0	0	0							
	14	MVYL	0-3	0	0	0	1	1	0	0	0	0							
	15	MVYE	0-7	0	0	0	1	2	0	0	0	0							
	16	MVCR	0-3	0	0	0	1	1	0	0	0	0							
	17	MVCL	0-3	0	0	0	1	1	0	0	0	0							
	18	MVCE	0-7	0	0	0	2	2	0	0	0	0							

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
MID5				
				MS
	19	**SHLY**	0-7	0
	20	**SHLC**	0-7	0
	21	**SVLY**	0-7	0
	22	**SVLC**	0-7	0
	23	**SHYR**	0-3	0
	24	**SHYL**	0-3	0
	25	**SHYE**	0-7	0
	26	**SHYO**	0, 1	0
	27	**SHCR**	0-3	0
	28	**SHCL**	0-3	0
	29	**SHCE**	0-7	0
	30	**SHCO**	0, 1	0
	31	**SVYR**	0-3	0
	32	**SVYL**	0-3	0
	33	**SVYE**	0-7	0
	34	**SVCR**	0-3	0
	35	**SVCL**	0-3	0
	36	**SVCE**	0-7	0

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
CXA3506R						
				480i	**Others**	
	0	MCON	0, 1	64	64	
	1	SCOR	0-255	128	128	
	2	SCOG	0-255	128	128	
	3	SCOB	0-255	128	128	
	4	RGB	0-255	0	0	
AUDIO						
	0	ASYS	0, 1	0		
	1	TRCV	0-3	1		
	2	BACV	0-3	0		
	3	MDCV	0-3	2		
	4	SVHI	0-7	4		
	5	SVLO	0-7	5		
	6	MDFQ	0-15	10		
	7	LOFQ	0-7	1		
	8	SBAS	0-15	9		
	9	BSFQ	0-15	0		
	10	STRE	0-15	10		
	11	TRFQ	0-15	7		
	12	PSEF	0-15	5		
	13	AGCL	0-15	3		
				TruSurround	**Simulated**	**SteadySound**
	14	BBE	0, 1	1	1	1
	15	BBEP	0-7	6	6	6
	16	BBEL	0-7	3	3	3
	17	BB2P	0-7	6	6	6
	18	BB2L	0-7	3	3	3
	19	TRS1	0-7	4		
	20	TRS2	0-7	2		

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data						
SNNR	0	MODE	0-3	0						
	1	SNNR	0-7	0						
				A	B	C	D	E	F	G
	2	WSLT	0-255	15	31	45	63	85	110	127
				0	1	2	3	4	5	6	7
	3	CPFG	0-15	0	0	1	1	2	2	2	3
	4	CPFT	0-3	0	0	0	0	0	0	0	0
	5	CCOR	0-3	0	0	1	1	1	1	1	1
	6	CHCG	0, 1	0	1	1	1	1	1	1	1
	7	CAPG	0-7	0	0	0	0	0	0	0	0
	8	3SHP	0-15	0	0	1	1	2	2	2	3
	9	NYNR	0-15	0	1	2	2	3	3	4	4
	10	NCNR	0-15	0	1	2	2	3	3	4	4
	11	NYMG	0-3	0	0	0	0	0	0	0	0
	12	NCMG	0-3	0	0	0	0	0	0	0	0
	13	NYLT	0-15	0	1	1	2	3	4	6	8
	14	NYNC	0-15	0	0	2	2	3	3	4	4
	15	NYCO	0, 1	0	0	1	1	1	1	1	1
	16	7SHP	0-63	0	0	1	1	3	3	3	4
	17	7YF1	0-3	0	0	1	1	2	2	2	3
	18	7LTI	0-3	0	0	0	0	0	0	0	0
	19	7CTI	0-3	0	0	0	0	0	0	0	0
	20	7VML	0-15	0	0	0	0	0	0	0	0
	21	7VMC	0-3	0	0	1	1	2	2	2	3
	22	MIDD	0-63	0	0	1	1	2	2	2	3

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
CCD				
	0	HPRM	0-255	60
	1	HPRS	0-255	60
	2	YSYM	0, 1	0
	3	CCDI	0-7	3
	4	CRIP	0-7	4
	5	PHLD	0, 1	0
	6	CHMK	0-63	54
	7	LANG	0-15	0
	8	DATA	0, 1	0
	9	VCHP	0, 1	0
	10	CLMP	0, 1	0
	11	SYSV	0-7	4
	12	ID1	0, 1	1
	13	ID1M	0-7	1
	14	FPOL	0, 1	0
	15	BWHT	0, 1	0
	16	MESH	0, 1	0
	17	BNBB	0-3	1
	18	BNBG	0-3	1
	19	BNBR	0-3	0
	20	CMP1	0-7	2
	21	CMP2	0-7	5
	22	CMP3	0-7	3
	23	CWHT	0-7	3
	24	VSDW	0, 1	1
	25	BFRQ	0, 1	0
	26	BPOS	0, 1	0
	27	BFRM	0, 1	1
	28	BTIM	0, 1	0

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
3DNR				
	0	WHCT	0-63	44
	1	NIQM	0, 1	1
	2	CLPW	0-63	30
	3	CLPP	0-255	80
	4	YHBW	0-255	138
	5	YBKL	0-15	0
	6	YBKO	0, 1	0
	7	MUTE	0, 1	0
	8	YHBS	0-127	40
	9	CHBW	0-255	138
	10	CBKO	0-127	40
	11	CHBO	0, 1	0
	12	VHBL	0-15	0
	13	UHBL	0-15	0
	14	UVDL	0-7	0
	15	YDL	0-7	0
	16	PVDI	0, 1	0
	17	PHDI	0, 1	0
	18	HDW	0-63	16
	19	PVDO	0, 1	0
	20	PHDO	0, 1	0
	21	HST	0-255	54
	22	VDL	0-15	0
	23	VDW	0-15	44
	24	NDET	0-15	1
	25	NVP	0-15	30
	26	NDTS	0-3	80
	27	HROF	0, 1	138
	28	NDGW	0-15	0
	29	UOFS	0-7	1
	30	POT	0-3	0
	31	UVF	0, 1	40
	32	APC	0, 1	138
	33	DAP	0, 1	40

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	34	YLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	35	YST	0, 1	0		
	36	YNT	0, 1	1		
	37	YPL	0, 1	1		
	38	YMV	0, 1	0		
					Others	480i
	39	YCR	0-31	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	40	VOS	0-7	1		
					Others	480i
	41	YMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	42	YEG	0, 1	1		
					Others	480i
	43	YEL	0-15	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	44	YLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	45	CLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	46	CNT	0, 1	1		
	47	CPL	0, 1	1		
					Others	480i
	48	CMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
					Others	480i
	49	CCR	0-31	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	50	CLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
	51	NVSL	0-255	20		
	52	NVSH	0, 1	0		
	53	NHS	0-127	16		
	54	NVEL	0-255	244		
	55	NVEH	0, 1	0		
	56	NHE	0-127	120		
					Others	480i
	57	YNG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	58	COR	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	59	LPF	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	60	YLT	0-15	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	61	YNC	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
					Others	480i
	62	YCO	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
	63	ADTH	0, 1	0		

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
DRCV							
	0	MFVR	0, 1	0			
	1	ISEL	0, 1	1			
					RF	CV/YC	V5/V6 480i	DVI
	2	ORES	0-255	Vivid	128	128	128	128
				Standard	128	128	128	128
				Movie	128	128	133	128
				Pro	128	128	133	128
					RF	CV/YC	V5/V6 480i	DVI
	3	ONCT	0-255	Vivid	128	128	128	128
				Standard	128	128	128	128
				Movie	128	128	128	128
				Pro	128	128	133	133
				CUSTOM1	CUSTOM2	CUSTOM3	
	4	AINI	0-127	0	49	79	
	5	BINI	0-127	24	54	89	
	6	FMAT	0, 1	0			
				Other	RF		
	7	FMTH	0-3	1	1		
	8	FSEL	0, 1	1			
	9	CDLY	0-3	2			
	10	LMIT	0, 1	0			
				Vivid	Standard	Movie	Pro
	11	LMLV	0-3	2	2	2	2
	12	LMSL	0, 1	1			
	13	VDLY	0-3	1			
	14	VDPR	0-3	3			
	15	WPLL	0-3	2			
	16	CRCT	0, 1	0			

KV-34HS510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data						
DRCV										
				SNNR						
				1	2	3	4	5	6	7
	17	NRA	0-255	0	0	0	0	0	0	0
	18	NRB	0-255	128	128	128	128	128	128	128
OP	0	DLY1	0-31	4						
	1	DLY2	0-31	12						
	2	DLY3	0-15	7						
	3	OSDH	0-255	20						
	4	HDPT	0, 1	1						
	5	MSBG	0-255	0						
	6	AACK	0-3	2						
	7	RAMW	0-3	0						

4-4.3. KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data								
VERSION	0	VER	0,1	0								
	1	DMY1	0-255	0								
3D_COMB	0	NRMD	0-3	0								
	1	CLKS	0-3	1								
	2	NSDS	0-3	0								
	3	MSS	0-3	0								
	4	KILS	0-3	1								
	5	FRZE	0, 1	0								
	6	EXCS	0-3	1								
	7	CDL	0-7	4								
				NRMD(0)	NRMD(1)	NRMD(2)	NRMD(3)					
	8	DYCO	0-15	2	2	2	2					
	9	DYGA	0-15	10	10	10	10					
	10	DCCO	0-15	5	5	5	5					
	11	DCGA	0-15	5	5	5	5					
	12	WSC	0-2	1								
	13	WSS	0, 1	0								
				Vivid	Standard	Movie	Pro					
	14	VAPG	0-7	4	2	2	0					
	15	VAPI	0-31	4	4	4	0					
	16	TEST	0, 1	0								
				Vivid	Standard			Movie		Pro		TWIN
				RF	CV/YC	RF	CV/YC	RF	CV/YC	RF	CV/YC	Any
	17	YPFT	0-3	3	3	3	3	3	3	3	3	3
	18	YPFG	0-15	9	5	7	5	5	6	5	5	6
	19	SEDC	0, 1	0								
	20	SEDY	0, 1	1								
	21	YHCO	0-3	1								
	22	YHCG	0, 1	0								
	23	SYSP	0-3	0								
	24	TES2	0-7	0								

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
2103_1							
				480i	Others		
	0	YLEV	0-62	34	20		
	1	CLEV	0-63	40	17		
				RF	CV/YC		
	2	SCON	0-15	9	9		
	3	SCOL	0-15	2	2		
	4	SHUE	0-15	11	5		
	5	YDLY	0-3	0	0		
				RF	CV	V5	YC
	6	SHAP	0-15	9	8	4	8
	7	SHF0	0-3	0	0	3	0
	8	PREO	0-3	3	3	3	3
	9	BPF0	0-3	3			
	10	BPFQ	0-3	0			
				RF	CV/YC		
	11	BPSW	0, 1	1	0		
	12	TRAP	0, 1	0			
	13	LPF	0, 1	1			
				RF	CV/YC	Others	
	14	AFCG	0, 1	1	0	0	
	15	CDMD	0-3	3	3	3	
	16	SSMD	0-3	0	0	0	
				RF	CV/YC	V5/V6	DVI
	17	HMSK	0, 1	0	1	1	0
	18	HALI	0, 1	0			
				RF	CV/YC	V5/V6	DVI
	19	PPHA	0-15	7	7	7	0
				RF	V5/V6		
	20	CBO1	0-63	34	36		
	21	CRO1	0-63	32	38		
	22	CBO2	0-63	32			
	23	CRO2	0-63	32			
				Single	BLK(0)	BLK(1)	BLK(2)	BLK(3)
	24	ATPD	0-3	0	1	1	2	1
	25	DCTR	0-3	0	2	1	3	2

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
2103_2					
				DRC	VDO
	0	YLEV	0-63	41	35
	1	CLEV	0-63	31	42
				RF	CV/YC
	2	SCON	0-15	9	9
	3	SCOL	0-15	2	2
	4	SHUE	0-15	11	5
	5	YDLY	0-3	0	0
	6	SHAP	0-15	6	8
	7	SHF0	0-3	0	0
	8	PREO	0-3	3	3
	9	BPF0	0-3	3	
	10	BPFQ	0-3	0	
				RF	CV/YC
	11	BPSW	0, 1	1	0
	12	TRAP	0, 1	0	
				DRC	VDO
	13	LPF	0, 1	1	0
				RF	CV/YC
	14	AFCG	0, 1	1	0
	15	CDMD	0-3	3	3
	16	SSMD	0-3	0	0
	17	HMSK	0, 1	0	1
	18	HALI	0, 1	0	
				RF	CV/YC
	19	PPHA	0-15	7	7
	20	CBO1	0-63	34	
	21	CRO1	0-63	32	

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data								
2170P_1												
				CV/YC	480i	VDO	MS	PT				
	0	YOSW	0, 1	1	0	0	0	0				
	1	TCOF	0, 1	0								
									DVI 480p VGA	DVI 720p 1080i		
				DRC CV/YC	DRC 480i	V5/V6 480p	V5/V6 720p	V5/V6 1080i	DVI 480p VGA	DVI 720p 1080i	PT 1080i	MS
	2	YOF	0-15	0	15	7	7	7	7	7	7	7
	3	CBOF	0-63	31	31	31	31	31	31	31	31	31
	4	CROF	0-63	31	31	31	31	31	31	31	31	31
	5	SBRT	0-63	31								
	6	RDRV	0-63	45								
	7	GDRV	0-63	35								
	8	BDRV	0-63	34								
	9	RCUT	0-63	41								
	10	GCUT	0-63	35								
	11	BCUT	0-63	18								
				WARM	COOL							
	12	WBSW	0, 1	1								
	13	SBOF	0-15	7	7							
	14	RDOF	0-63	31	31							
	15	GDOF	0-63	34	31							
	16	BDOF	0-63	45	34							
	17	RCOF	0-63	31	31							
	18	GCOF	0-63	37	31							
	19	BCOF	0-63	63	34							
	20	DCOL	0-3	1								

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
2170P_2	0	PICO	0, 1	1	
	1	RGBS	0-7	7	
	2	BLKB	0-3	3	
	3	RGBL	0-3	2	
	4	YLMT	0-3	3	
	5	AGNG	0-3	0	
	6	AKBO	0, 1	0	
				Other	PT
	7	CLPP	0-3	3	3
	8	CLPG	0, 1	0	0
	9	CLPS	0, 1	0	0
	10	PPAD	0-7	3	3
	11	SYNP	0, 1	0	0
	12	HVBT	0, 1	0	

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data													
2170P_3																	
						Comp	Comp	Comp	Comp	DVI	DVI	DVI	DVI	DVI	MS	MS	
				RF	CV/YC	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Menu	Single	Twin
	0	SYSM	0-3	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15														
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3	1	1	1	1	0	0	1	1	1	0	0	0	0	0
ViVid Mode	5	VMDL	0-15	2	3	3	3	3	3	3	3	3	3	3	3	3	5
	6	SHOF	0-3	1	2	3	1	3	3	2	1	2	3	3	3	3	1
	7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3	0	2	1	0	3	3	1	0	0	3	3	3	3	2
	9	F1LV	0-3	0	2	1	0	0	0	1	0	0	0	0	0	0	0
	10	LTLV	0-3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	11	LTMD	0, 1	1	1	1	0	0	0	1	0	0	0	0	0	0	1
	12	CTLV	0-3	0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7	0	0	0	1	1	1	0	1	0	1	1	1	1	1
	14	UCOF	0-7	2	2	2	2	2	2	2	2	2	2	2	0	0	2
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63	7	11	15	19	23	27	31	35	44	39	43	48	52	56
						Comp	Comp	Comp	Comp	DVI	DVI	DVI	DVI	DVI	MS	MS	
				RF	CV/YC	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Menu	Single	Twin
	0	SYSM	0-3	1	1	1	1	3	3	1	1	1	3	3	3	3	2
	1	VMLV	0-15														
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3	1	1	1	1	0	0	1	1	1	0	0	0	0	0
Standard Mode	5	VMDL	0-15	2	3	3	3	3	3	3	3	3	3	3	3	3	5
	6	SHOF	0-3	1	3	3	2	3	3	3	2	2	3	3	3	3	1
	7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3	0	1	1	0	3	3	1	0	0	3	3	3	3	2
	9	F1LV	0-3	0	1	3	0	0	0	3	0	0	0	0	0	0	0
	10	LTLV	0-3	2	2	2	3	3	3	2	3	3	3	3	3	3	3
	11	LTMD	0, 1	1	1	1	0	1	1	1	0	0	1	1	1	1	1
	12	CTLV	0-3	0	0	0	0	3	3	0	0	0	3	3	3	3	0
	13	UBOF	0-7	2	2	2	0	2	2	2	0	0	2	2	2	2	1
	14	UCOF	0-7	2	1	2	2	1	2	2	2	2	1	2	0	0	0
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63	5	10	14	18	22	26	30	34	44	38	42	47	51	55

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name: 2170P_3

Movie Mode

No.	Item Name	Range	RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
0	SYSM	0-3	1	1	1	1	3	3	1	1	1	3	3	3	3	2
1	VMLV	0-15														
2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	VMF0	0-3	1	1	1	1	0	0	1	1	1	0	0	0	0	0
5	VMDL	0-15	3	3	3	3	3	3	3	3	3	3	3	3	3	5
6	SHOF	0-3	1	1	1	1	1	1	1	1	2	1	1	1	1	1
7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	PROV	0-3	0	3	1	1	3	3	1	1	0	3	3	3	3	2
9	F1LV	0-3	0	0	1	0	0	0	1	0	0	0	0	0	0	0
10	LTLV	0-3	1	1	1	2	2	2	1	2	3	2	2	2	2	1
11	LTMD	0, 1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
12	CTLV	0-3	0	0	0	0	2	2	0	0	0	2	2	2	2	0
13	UBOF	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	UCOF	0-7	0	0	0	0	0	0	0	0	2	0	0	0	0	0
15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	MIDE	0-63	3	9	13	17	21	25	29	33	44	37	41	46	50	54

Pro Mode

No.	Item Name	Range	RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
0	SYSM	0-3	1	1	2	1	3	3	2	1	1	3	3	3	3	2
1	VMLV	0-15														
2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	VMF0	0-3	1	1	0	0	0	0	0	0	1	0	0	0	0	0
5	VMDL	0-15	3	3	3	3	3	3	3	3	3	3	3	3	3	5
6	SHOF	0-3	1	2	0	0	2	2	0	0	2	2	2	2	2	2
7	SHF0	0, 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	PROV	0-3	0	2	3	1	3	3	3	1	0	3	3	3	3	2
9	F1LV	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	LTLV	0-3	0	0	0	0	0	0	0	0	3	0	0	0	0	0
11	LTMD	0, 1	1	1	1	1	1	1	1	1	0	1	1	1	1	1
12	CTLV	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	UBOF	0-7	2	2	2	1	1	1	2	1	0	1	1	1	1	2
14	UCOF	0-7	0	0	0	0	0	0	0	0	2	0	0	0	0	0
15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	MIDE	0-63	0	8	12	16	20	24	28	32	44	36	40	45	49	53

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
2170P_3							
				Vivid	Standard	Movie	Pro
	17	VM	0-3	3	3	1	0
	18	VMH	0-15	15	15	12	12
	19	VMM	0-15	10	10	8	8
	20	VML	0-15	6	6	4	4
	21	VGAP	0-15	5			
	22	VGAS	0-15	0			
	23	VGAB	0-15	0			
	24	VGAC	0-15	0			
	25	VGAV	0-15	5			

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
2170P_4								
				MS	Other			
	0	YCON	0, 1	0	1			
				DRC	VDO(V5/V6)	VDO (DVI)	MS	PT
	1	SPIC	0-15	7	7	7	0	7
	2	SCOL	0-63	31	31	31	31	31
	3	SHUE	0-63	31	31	31	31	31
	4	SPIO	0-15	7				
	5	SCLO	0-15	7				
	6	SHUO	0-15	7				
				Vivid	Standard	Movie	Pro	
	7	UPIC	0-63	63	48	39	31	
	8	UBRT	0-63	31	31	31	31	
	9	UCOL	0-63	35	31	31	31	
	10	UHUE	0-63	31	31	31	31	
	11	USHP	0-63	24	29	31	31	
	12	UTMP	0-3	2	1	0	1	
	13	RYR	0-15	8				
	14	RYB	0-15	9				
	15	GYR	0-15	9				
	16	GYB	0-15	6				

					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	17	GAMM	0-3	Vivid	3	2	3	3	3	3	2	3	0	3	3	3	3	3
				Standard	1	1	1	1	1	1	1	1	0	1	1	1	1	2
				Movie	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data			
2170P_4							
				GAMM (0)	GAMM (1)	GAMM (2)	GAMM (3)
	18	GAMS	0-15	0	8	8	8
	19	GAMR	0-15	0	4	8	12
	20	GAMG	0-15	0	4	8	12
	21	GAMB	0-15	0	4	8	12

					RF	CV/YC	Comp 480i	Comp 480p	Comp 1080i	Comp 720p	DVI 480i	DVI 480p	DVI VGA	DVI 1080i	DVI 720p	MS Menu	MS Single	Twin
	22	BLK	0-3	Vivid	3	3	3	3	3	3	3	3	0	3	3	3	3	3
				Standard	2	2	2	2	2	2	2	2	0	2	2	2	2	2
				Movie	0	0	1	0	1	0	1	0	0	1	0	1	1	0
				Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0

				BLK (0)	BLK (1)	BLK (2)	BLK (3)
	23	DCTR	0-15	0	3	7	12
	24	APED	0-3	0	0	1	2
	25	DSBO	0-15	7	7	7	7
				0	1	0	1
	26	IDSW	0-7	0			

				BLK (0)	BLK (1)	BLK (2)	BLK (3)
	27	ABLM	0-3	0	1	0	1

				Others	Small Pic
	28	ABLT	0-15	0	7
	29	SPOF	0-31	13	

				BLK (0)	BLK (1)	BLK (2)	BLK (3)
	30	DPSQ	0, 1	1	1	1	1
	31	LRGB	0-15	3			

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
2170D_1	0	VPOS	0-63	31					
	1	VSIZ	0-63	30					
				1080iFULL	**Others**				
	2	VSZO	0-63	0	0				
				WideZoom	**Others**				
	3	VLIN	0-15	8	8				
	4	VSCO	0-15	10	9				
	5	VCEN	0-63	31					
				1080Vcomp 480Vcomp	**Others**				
	6	VPIN	0-63	15	15				
	7	MVPN	0-3	0					
	8	NSCO	0-63	31					
	9	HTPZ	0-31	15					
	10	MHTZ	0-3	0					
				WideZoom	**Zoom**	**Others**			
	11	ZOOM	0, 1	1	1	0			
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp**	**480Vcomp**
	12	APSW	0, 1	1	1	1	0	0	1
	13	ASPT	0-63	22	43	47	47	47	47
	14	SCRL	0-63	31	31	31	31	31	31
				WideZoom	**Others**				
	15	UVLN	0-15	4	0				
	16	LVLN	0-15	4	0				

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
2170D_2								
	0	HCNT	0-63	31				
				1080FULL				
				1080Vcomp	**Others**			
	1	HPOS	0-63	31	31			
				WideZoom	**Others**			
	2	HSIZ	0-63	49	40			
	3	SLIN	0-15	10	4			
	4	MPIN	0-15	10	8			
	5	PIN	0-63	40	31			
				WideZoom	**Zoom**	**480FULL**	**1080FULL**	**1080Vcomp** **480Vcomp**
	6	PINO	0-15	7	7	7	7	7
				WideZoom	**Others**			
	7	UCP	0-63	31	35			
	8	LCP	0-63	31	35			
	9	UXCG	0-3	0				
	10	LXCG	0-3	0				
	11	UXCP	0-3	2				
	12	LXCP	0-3	2				
	13	XCPP	0, 1	0				
				WideZoom	**Others**			
	14	PPHA	0-63	20	20			
	15	VANG	0-63	31				
	16	LANG	0-63	31				
	17	VBOW	0-63	31				
	18	LBOW	0-63	31				

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
2170D_3	0	HBLK	0, 1	1					

No.	Item Name	Range	1080FULL 1080Vcomp	Others
1	LBLK	0-63	50	51
2	RBLK	0-63	31	27

No.	Item Name	Range	WideZoom	Zoom	480FULL 1080FULL	480Vcomp 1080Vcomp
3	VBLK	0, 1	0	0	1	1

No.	Item Name	Range	WideZoom	Zoom	480FULL	1080FULL	1080Vcomp	480Vcomp
4	TBLK	0-15	12	7	2	4	10	8
5	BBLK	0-15	7	7	8	6	14	13

No.	Item Name	Range	1080FULL 1080Vcomp	Others
6	AFCM	0-3	2	3

No.	Item Name	Range	1080Vcomp 480Vcomp	Others
7	JUMP	0, 1	1	0

No.	Item Name	Range	WideZoom	Zoom	480Vcomp 480FULL	1080Vcomp 1080FULL
8	VDJP	0, 1	1	1	0	1

No.	Item Name	Range	1080Vcomp 1080FULL	Others
9	VDST	0, 1	0	0
0	HBLK	0, 1	1	

No.	Item Name	Range	WideZoom	Zoom	480FULL 480Vcomp	1080FULL 1080Vcomp
10	AKBT	0-31	15	15	22	16

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data	
				1080Vcomp	
				480Vcomp	Others
2170D_4					
	0	QPAM	0-63	22	22
	1	QPAV	0-63	40	40
	2	QPAP	0-15	6	6
	3	QPDC	0-63	17	17
	4	QPDV	0-63	52	52
	5	QPDP	0-15	6	6
	6	CPY1	0, 1	0	
	7	DF	0-63	39	
	8	DQP	0-63	37	
	9	DHMT	0, 1	0	
2170D_5	0	VFRQ	0-3	1	
	1	VON	0, 1	1	
	2	EWDC	0, 1	0	
	3	MS15	0, 1	0	
	4	HFRQ	0-255	80	
	5	HFRX	0-63	25	
	6	VMPS	0, 1	0	
	7	INTR	0, 1	0	
	8	VLNL	0-3	0	
	9	VLNH	0-255	0	
	10	AGCS	0, 1	0	

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
D_CONV						
				1080Vcomp		
				480Vcomp	Others	
	0	YBWU	0-63	31	31	
	1	YBWL	0-63	31	31	
	2	RSAP	0-63	31	31	
	3	RUBW	0-63	31	31	
	4	RUMB	0-63	31	31	
	5	RLBW	0-63	31	31	
	6	RLMB	0-63	31	31	
	7	LSAP	0-63	31	31	
	8	LUBW	0-63	31	31	
	9	LUMB	0-63	31	31	
	10	LLBW	0-63	31	31	
	11	LLMB	0-63	31	31	
	12	CADJ	0-63	29		
	13	CPY2	0, 1	0		
CXA2151	0	MTRX	0-3			
				PT	Others	
	1	GAIN	0-3	7	7	
				V5/V6	DVI	Others
	2	FIXS	0-3	0	0	0
				PT	Others	
	3	CBGN	0-15	7	7	
	4	CRGN	0-15	8	8	
	5	YGN	0-15	8	8	
	6	VTC	0-3	0		
	7	HTC	0, 1			
	8	HWID	0-3	1		
	9	HSEP	0, 1	1		
	10	HMSK	0, 1			
				V5/V6	DVI	Others
	11	FRGB	0, 1	0	0	0

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
MID1									
	0	DHPH	0-255	111					
	1	DVPH	0-63	20					
	2	DHAR	0-255	240					
	3	DVAR	0-255	135					
	4	DHPW	0-63	55					
	5	DVPW	0-7	5					
				Single		**Twin**	**Freeze**	**Favorite**	**Index**
				480i	**Others**				
	6	DYCD	0-63	3	0	2	2	2	2
				table-0	**table-1**	**table-2**	**table-3**		
	7	DYSD	0-7	7	4	2	1		
				Single				**Favorite**	**Index**
				VGA		**Others**		**VGA**	**VGA**
				Normal	**Others**	**Normal**	**Others**		
	8	MDHP	0-255		72		0	40	38
				Single			**Favorite**	**Index**	
				480i/480p	**VGA**	**Others**	**VGA**	**VGA**	
	9	MDVP	0-255	30	66	0	34	86	
				Single				**Favorite**	**Index**
				VGA		**Others**		**VGA**	**VGA**
				Normal	**Others**	**Normal**	**Others**		
	10	MDHS	0-255		204		240	155	116

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
MID1								
				Single			Favorite	Index
				480i/480p	VGA	Others	VGA	VGA
	11	MDVS	0-255	120	102	135	103	77
				Twin/Freeze	Favorite	Index		
	12	MLHP	0-255	36	31	31		
	13	MLVP	0-255	8	30	41		
				Favorite				
	14	SDHP	0-255	167				
	15	SDVP	0-255	5				
	16	SDHS	0-255	115				
	17	SDVS	0-255	79				
	18	PDHP	0-255					
	19	PDVP	0-255					
	20	PDHS	0-255					
	21	PDVS	0-255					
				1080i Single	Others			
	22	DPSW	0, 1	0	0			
	23	MDLO	0-63	6				
				Single			Others	
				Normal	Others	MS		
	24	BCOL	0-15		1	0	1	
	25	DYSS	0-3	1				
				Index				
	26	OSDH	0-63	32				
	27	OSDV	0-63	16				

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data				
MID2								
					480i		**YC**	
					Normal	**Others**	**Normal**	**Others**
	0	DRHP	0-255	**Single**		120		117
	1	DRHS	0-255			180		180
	2	DRVP	0-63			37		37
	3	DRVS	0-255			120		120
					480i	**YC**		
	0	DRHP	0-255	**Twin-Left**	146	148		
	1	DRHS	0-255		164	164		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		
					YC			
	0	DRHP	0-255	**Twin-Right**	153			
	1	DRHS	0-255		164			
	2	DRVP	0-63		57			
	3	DRVS	0-255		110			
					480i	**YC**		
	0	DRHP	0-255	**Freeze**	153	153		
	1	DRHS	0-255		162	162		
	2	DRVP	0-63		57	57		
	3	DRVS	0-255		110	110		

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data							
MID2											
				Favorite-Main		**480i**			**YC**		
						Full	**Vcomp**		**Full**	**Vcomp**	
	0	**DRHP**	0-255			140	140		140	140	
	1	**DRHS**	0-255			165	165		165	165	
	2	**DRVP**	0-63			37	57		37	57	
	3	**DRVS**	0-255			120	110		120	110	
				Favorite-Sub		YC					
	0	**DRHP**	0-255			153					
	1	**DRHS**	0-255			171					
	2	**DRVP**	0-63			28					
	3	**DRVS**	0-255			118					
				Index-Main		**480i**			**YC**		
						Full	**Vcomp**		**Full**	**Vcomp**	
	0	**DRHP**	0-255								
	1	**DRHS**	0-255								
	2	**DRVP**	0-63								
	3	**DRVS**	0-255								
				Index-Sub		YC					
	0	**DRHP**	0-255								
	1	**DRHS**	0-255								
	2	**DRVP**	0-63								
	3	**DRVS**	0-255								

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data									
MID3													
				Single	**1080i**	**720p**	**480p**		**480i**		**VGA**		
							Normal	Others	Normal	Others	Normal	Others	
	0	VDHP	0-255		74	94		106		208		119	
	1	VDHS	0-255		161	108		167		213		159	
	2	VDVE	0-63		19	24		37		17		34	
	3	VDVS	0-255		135	180		120		60		120	
				Twin-Left	**1080i**	**720p**	**480p**	**480i**	**VGA**				
	0	VDHP	0-255		95	111	134	208	148				
	1	VDHS	0-255		149	99	152	213	145				
	2	VDVE	0-63		43	54	57	27	45				
	3	VDVS	0-255		123	165	110	55	110				
				Twin-Right	**YC**								
	0	VDHP	0-255		200								
	1	VDHS	0-255		213								
	2	VDVE	0-63		27								
	3	VDVS	0-255		55								
				Freeze	**1080i**	**720p**	**480p**	**480i**	**VGA**				
	0	VDHP	0-255		102	114	139	208	148				
	1	VDHS	0-255		147	98	150	213	144				
	2	VDVE	0-63		43	54	57	27	45				
	3	VDVS	0-255		123	165	110	55	110				

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data									
MID3													
				Favorite-Main	1080i		720p	480p		480i		VGA	
					FULL	Vcomp	-	FULL	Vcomp	FULL	Vcomp	FULL	Vcomp
	0	VDHP	0-255		94	94	105	128	128	208	208	118	137
	1	VDHS	0-255		149	149	100	153	153	213	213	159	159
	2	VDVE	0-63		43	43	55	37	57	17	27	34	34
	3	VDVS	0-255		123	123	165	120	110	60	55	120	120
				Favorite-Sub	YC								
	0	VDHP	0-255		205								
	1	VDHS	0-255		223								
	2	VDVE	0-63		13								
	3	VDVS	0-255		59								
				Index-Main	1080i		720p	480p		480i		VGA	
					FULL	Vcomp	-	FULL	Vcomp	FULL	Vcomp	FULL	Vcomp
	0	VDHP	0-255										
	1	VDHS	0-255										
	2	VDVE	0-63										
	3	VDVS	0-255										
				Index-Sub	YC								
	0	VDHP	0-255										
	1	VDHS	0-255										
	2	VDVE	0-63										
	3	VDVS	0-255										

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data					
MID3									
				YC	480i	1080i	720p	480p	VGA
	4	VDVO	0-3	0	0	0	0	0	0
	5	VCPO	0-255	95	90	40	40	70	70
	6	VCWD	0-7	3	3	3	3	3	3
	7	VYCD	0-63	0	0	0	0	0	0
	8	VSTP	0-255	62	62	144	132	110	119
	9	VSTT	0-15	0	0	0	0	0	0
	10	VHSC	0-255	130	130	130	130	130	130
	11	VFRV	0, 1	0	0	0	0	0	0

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data															
MID5	0	POP	0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	MHLY	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	1	1	1	2	2	2	2	0	0	2	1	0	0	1	1
	6	MHYL	0-3	0	1	1	1	1	2	2	2	0	1	2	1	0	0	2	2
	7	MHYE	0-7	0	2	2	5	6	7	7	7	0	2	6	7	0	0	2	7
	8	MHYO	0, 1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	MVYR	0-3	0	0	0	0	1	2	2	2	0	0	1	1	0	0	1	2
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	0	1	1	0	0	1	2
	15	MVYE	0-7	0	0	0	0	1	1	1	1	0	0	3	3	0	0	3	3
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	6	MHYL	0-3	1	1	1	1	1	1	1	1	1	1	1	1	0	0	2	2
	7	MHYE	0-7	4	2	2	3	2	4	7	7	2	4	7	7	0	0	2	7
	8	MHYO	0, 1	1	1	1	0	0	1	1	1	0	0	0	0	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	2
	14	MVYL	0-3	0	1	1	1	0	1	1	1	0	0	1	1	0	0	1	2
	15	MVYE	0-7	0	1	3	1	0	2	4	4	0	0	4	4	0	0	3	3
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data															
MID5																			
	0	POP	0-63	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	6	MHYL	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	7	MHYE	0-7	4	2	2	3	2	4	7	7	2	4	7	7	2	0	0	0
	8	MHYO	0, 1	1	1	1	0	0	1	1	1	0	0	0	0	1	0	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0
	14	MVYL	0-3	0	1	1	1	0	1	1	1	0	0	1	1	1	0	0	0
	15	MVYE	0-7	0	1	3	1	0	2	4	4	0	0	4	4	3	0	0	0
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

Category Name	No.	Item Name	Range	Initial Data								
	0	POP	0-63	48	49	50	51	52	53	54	55	56
	1	MHLY	0-3	0	0	0	0	0	0	0	0	0
	2	MHLC	0-3	0	0	0	0	0	0	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	0	0	0	0	0	0	0	0
	6	MHYL	0-3	0	1	1	1	1	0	0	0	0
	7	MHYE	0-7	0	2	4	5	7	0	0	0	0
	8	MHYO	0, 1	0	0	0	0	0	0	0	0	0
	9	MHCR	0-3	0	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	0	0	0	0	0	0	0	0
	14	MVYL	0-3	0	0	0	1	1	0	0	0	0
	15	MVYE	0-7	0	0	0	4	4	0	0	0	0
	16	MVCR	0-3	0	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	4	4	0	0	0	0

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
MID5				
				MS
	19	SHLY	0-7	0
	20	SHLC	0-7	0
	21	SVLY	0-7	0
	22	SVLC	0-7	0
	23	SHYR	0-3	0
	24	SHYL	0-3	0
	25	SHYE	0-7	0
	26	SHYO	0, 1	0
	27	SHCR	0-3	0
	28	SHCL	0-3	0
	29	SHCE	0-7	0
	30	SHCO	0, 1	0
	31	SVYR	0-3	0
	32	SVYL	0-3	0
	33	SVYE	0-7	0
	34	SVCR	0-3	0
	35	SVCL	0-3	0
	36	SVCE	0-7	0

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
CXA3506R						
	0	MCON	0, 1			
	1	SCOR	0-255			
	2	SCOG	0-255			
	3	SCOB	0-255			
	4	RGB	0-255			
AUDIO						
	0	ASYS	0, 1	1		
	1	TRCV	0-3	2		
	2	BACV	0-3	0		
	3	MDCV	0-3	2		
	4	SVHI	0-7	4		
	5	SVLO	0-7	4		
	6	MDFQ	0-15	9		
	7	LOFQ	0-7	1		
	8	SBAS	0-15	8		
	9	BSFQ	0-15	0		
	10	STRE	0-15	8		
	11	TRFQ	0-15	7		
	12	PSEF	0-15	5		
	13	AGCL	0-15	3		
				TruSurround	Simulated	SteadySound
	14	BBE	0, 1	1	1	1
	15	BBEP	0-7	4	4	4
	16	BBEL	0-7	1	1	1
	17	BB2P	0-7	4	4	4
	18	BB2L	0-7	1	1	1
	19	TRS1	0-7	4		
	20	TRS2	0-7	2		

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data						
SNNR	0	MODE	0-3	0						
	1	SNNR	0-7	0						
				A	B	C	D	E	F	G
	2	WSLT	0-255	15	31	45	63	85	110	127
				0	1	2	3	4	5	6	7
	3	CPFG	0-15	0	0	1	1	2	2	2	3
	4	CPFT	0-3	0	0	0	0	0	0	0	0
	5	CCOR	0-3	0	0	1	1	1	1	1	1
	6	CHCG	0, 1	0	1	1	1	1	1	1	1
	7	CAPG	0-7	0	0	0	0	0	0	0	0
	8	3SHP	0-15	0	0	1	1	2	2	2	3
	9	NYNR	0-15	0	1	2	2	3	3	4	4
	10	NCNR	0-15	0	1	2	2	3	3	4	4
	11	NYMG	0-3	0	0	0	0	0	0	0	0
	12	NCMG	0-3	0	0	0	0	0	0	0	0
	13	NYLT	0-15	0	1	1	2	3	4	6	8
	14	NYNC	0-15	0	0	2	2	3	3	4	4
	15	NYCO	0, 1	0	0	1	1	1	1	1	1
	16	7SHP	0-63	0	0	1	1	3	3	3	4
	17	7YF1	0-3	0	0	1	1	2	2	2	3
	18	7LTI	0-3	0	0	0	0	0	0	0	0
	19	7CTI	0-3	0	0	0	0	0	0	0	0
	20	7VML	0-15	0	0	0	0	0	0	0	0
	21	7VMC	0-3	0	0	1	1	2	2	2	3
	22	MIDD	0-63	0	0	1	1	2	2	2	3

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
CCD				
	0	HPRM	0-255	60
	1	HPRS	0-255	60
	2	YSYM	0, 1	0
	3	CCDI	0-7	3
	4	CRIP	0-7	4
	5	PHLD	0, 1	0
	6	CHMK	0-63	54
	7	LANG	0-15	0
	8	DATA	0, 1	0
	9	VCHP	0, 1	0
	10	CLMP	0, 1	0
	11	SYSV	0-7	4
	12	ID1	0, 1	1
	13	ID1M	0-7	1
	14	FPOL	0, 1	0
	15	BWHT	0, 1	0
	16	MESH	0, 1	0
	17	BNBB	0-3	1
	18	BNBG	0-3	1
	19	BNBR	0-3	0
	20	CMP1	0-7	2
	21	CMP2	0-7	5
	22	CMP3	0-7	3
	23	CWHT	0-7	3
	24	VSDW	0, 1	1
	25	BFRQ	0, 1	0
	26	BPOS	0, 1	0
	27	BFRM	0, 1	1
	28	BTIM	0, 1	0

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
3DNR	0	**WHCT**	0-63	44
	1	**NIQM**	0, 1	1
	2	**CLPW**	0-63	30
	3	**CLPP**	0-255	80
	4	**YHBW**	0-255	138
	5	**YBKL**	0-15	0
	6	**YBKO**	0, 1	0
	7	**MUTE**	0, 1	0
	8	**YHBS**	0-127	40
	9	**CHBW**	0-255	138
	10	**CBKO**	0-127	40
	11	**CHBO**	0, 1	0
	12	**VHBL**	0-15	0
	13	**UHBL**	0-15	0
	14	**UVDL**	0-7	0
	15	**YDL**	0-7	0
	16	**PVDI**	0, 1	0
	17	**PHDI**	0, 1	0
	18	**HDW**	0-63	16
	19	**PVDO**	0, 1	0
	20	**PHDO**	0, 1	0
	21	**HST**	0-255	54
	22	**VDL**	0-15	0
	23	**VDW**	0-15	44
	24	**NDET**	0-15	1
	25	**NVP**	0-15	30
	26	**NDTS**	0-3	80
	27	**HROF**	0, 1	138
	28	**NDGW**	0-15	0
	29	**UOFS**	0-7	1
	30	**POT**	0-3	0
	31	**UVF**	0, 1	40
	32	**APC**	0, 1	138
	33	**DAP**	0, 1	40

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
	0	WHCT	0-63	44		
					Others	480i
	34	YLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	35	YST	0, 1	0		
	36	YNT	0, 1	1		
	37	YPL	0, 1	1		
	38	YMV	0, 1	0		
					Others	480i
	39	YCR	0-31	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	40	VOS	0-7	1		
					Others	480i
	41	YMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
	42	YEG	0, 1	1		
					Others	480i
	43	YEL	0-15	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	44	YLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	45	CLV	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
	46	CNT	0, 1	1		
	47	CPL	0, 1	1		
					Others	480i
	48	CMG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3
					Others	480i
	49	CCR	0-31	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
					Others	480i
	50	CLM	0-127	Vivid	6	6
				Standard	6	6
				Movie	6	6
				Pro	6	6
	51	NVSL	0-255	20		
	52	NVSH	0, 1	0		
	53	NHS	0-127	16		
	54	NVEL	0-255	244		
	55	NVEH	0, 1	0		
	56	NHE	0-127	120		
					Others	480i
	57	YNG	0-3	Vivid	3	3
				Standard	3	3
				Movie	3	3
				Pro	3	3

reason

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data		
3DNR						
					Others	480i
	58	COR	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	59	LPF	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	60	YLT	0-15	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
					Others	480i
	61	YNC	0-15	Vivid	15	15
				Standard	10	10
				Movie	10	10
				Pro	8	8
					Others	480i
	62	YCO	0, 1	Vivid	0	0
				Standard	0	0
				Movie	0	0
				Pro	0	0
	63	ADTH	0, 1	0		

KV-36HS510\38DRC510 SERVICE DATA LISTS

Category Name	No.	Item Name	Range	Initial Data
DRCV	0	MFVR	0, 1	
	1	ISEL	0, 1	
	2	ORES	0-255	
	3	ONCT	0-255	
	4	AINI	0-127	
	5	BINI	0-127	
	6	FMAT	0, 1	
	7	FMTH	0-3	
	8	FSEL	0, 1	
	9	CDLY	0-3	
	10	LMIT	0, 1	
	11	LMLV	0-3	
	12	LMSL	0, 1	
	13	VDLY	0-3	
	14	VDPR	0-3	
	15	WPLL	0-3	
	16	CRCT	0, 1	
	17	NRA	0-255	
	18	NRB	0-255	
OP	0	DLY1	0-31	4
	1	DLY2	0-31	12
	2	DLY3	0-15	7
	3	OSDH	0-255	20
	4	HDPT	0, 1	1
	5	MSBG	0-255	0
	6	AACK	0-3	2
	7	RAMW	0-3	0

☞ 4-5. ID MAP TABLES

KV-32HS510/34DRC510/34DRC510C

			32HS510 US	32HS510 CND	34DRC510 LATIN NORTH	34DRC510C LATIN SOUTH
ID	0 ID0	0-255	89	89	89	89
	1 ID1	0-255	255	255	255	255
	2 ID2	0-255	239	239	239	239
	3 ID3	0-255	106	90	202	202
	4 ID4	0-255	203	203	251	251
	5 ID5	0-255	243	243	243	243
	6 ID6	0-255	126/254*	254	254	254
	7 ID7	0-255	16	16	80	80

KV-34HS510

			34HS510 US	34HS510 CND
ID	0 ID0	0-255	89	89
	1 ID1	0-255	255	255
	2 ID2	0-255	239	239
	3 ID3	0-255	106	90
	4 ID4	0-255	203	203
	5 ID5	0-255	243	243
	6 ID6	0-255	254	254
	7 ID7	0-255	17	17

*NOTE: 126 - M306V3 Micro
154 - M306V7 Micro
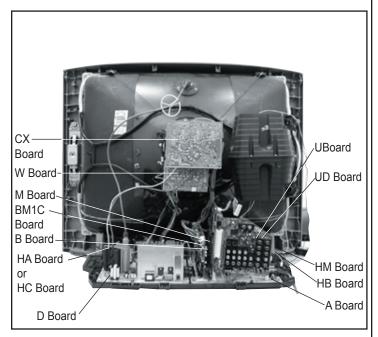
KV-36HS510/38DRC510

			36HS510 US	36HS510 CND	36HS510 HAW	38DRC510 LATIN NORTH	38DRC510 LATIN SOUTH
ID	0 ID0	0-255	89	89	89	89	89
	1 ID1	0-255	255	255	255	255	255
	2 ID2	0-255	239	239	239	239	239
	3 ID3	0-255	106	90	106	202	202
	4 ID4	0-255	203	203	203	251	251
	5 ID5	0-255	243	243	243	243	243
	6 ID6	0-255	126/254*	126/254*	126/254*	126/254*	254
	7 ID7	0-255	16	16	16	80	80

SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

CX Board
W Board
M Board
BM1C Board
B Board
HA Board or HC Board
D Board
UBoard
UD Board
HM Board
HB Board
A Board

5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_{16}$ W in chip resistance.

⊢〰〰〰⊣ : nonflammable resistor

⊢〰●⊣ : fusible resistor

$\triangle$: internal component

☐ : panel designation and adjustment for repair

⊥ : earth ground

⊤⊤ : earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

▬▬ : B+line.

▬ ▬ ☐ : B-line. (Actual measured value may be different.)

⇨ : signal path. (RF)

Circled numbers are waveform references.

The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol ▰▰ indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole ▰▰ indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

The components identified by ⧓ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⧓ and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (◪)	Adjustment (⧓)
D BOARD: IC6503, IC8001, IC8005, IC8004, IC8104, D8022, R8016, R8079, R8046, R8052, R8014, R8015, R8017, R8078, R8072, R8082, R8091, R8095	**HV ADJUST** RV8002

REFERENCE INFORMATION

RESISTOR
: RN   METAL FILM
: RC   SOLID
: FPRD   NONFLAMMABLE CARBON
: FUSE   NONFLAMMABLE FUSIBLE
: RW   NONFLAMMABLE WIREWOUND
: RS   NONFLAMMABLE METAL OXIDE
: RB   NONFLAMMABLE CEMENT
: ※   ADJUSTMENT RESISTOR

CAPACITOR
: TA   TANTALUM
: PS   STYROL
: PP   POLYPROPYLENE
: PT   MYLAR
: MPS   METALIZED POLYESTER
: MPP   METALIZED POLYPROPYLENE
: ALB   BIPOLAR
: ALT   HIGH TEMPERATURE
: ALR   HIGH RIPPLE
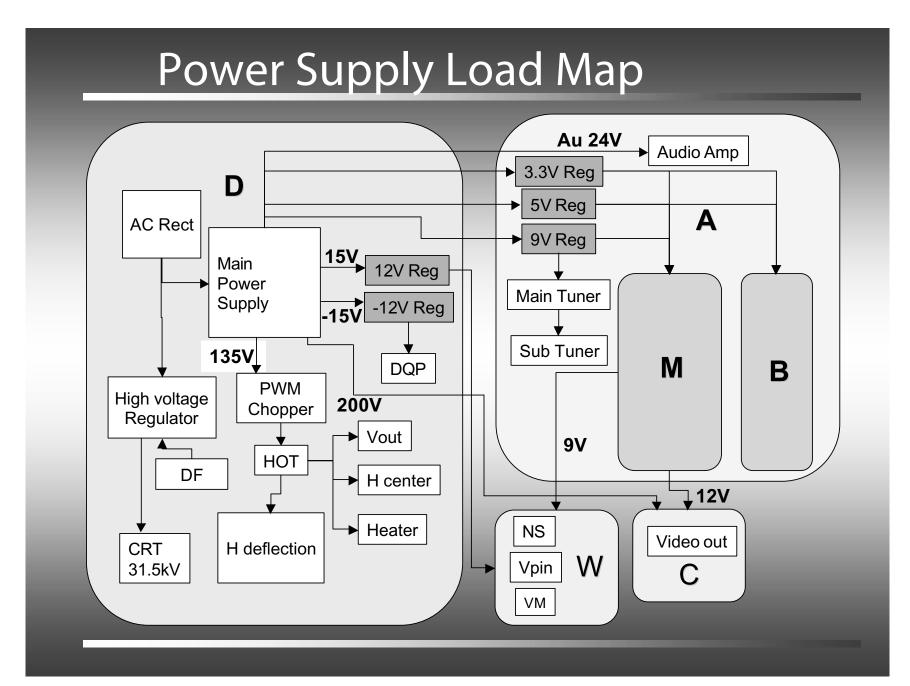
COIL
: LF-8L   MICRO INDUCTOR
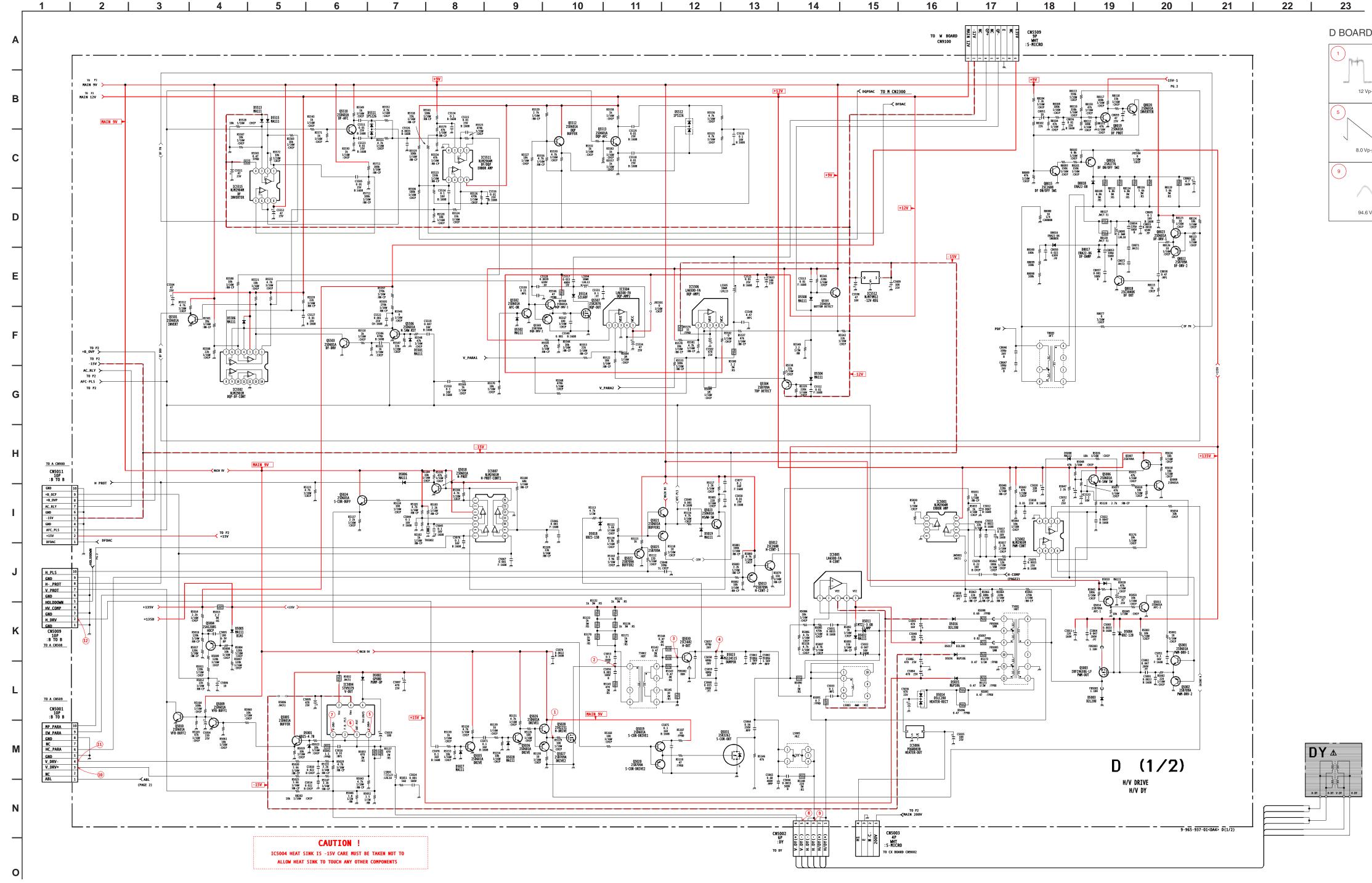
5-3. BLOCK DIAGRAMS
BLOCK DIAGRAMS (1 OF 3)

HS Signal Flow

BLOCK DIAGRAMS (2 OF 3)
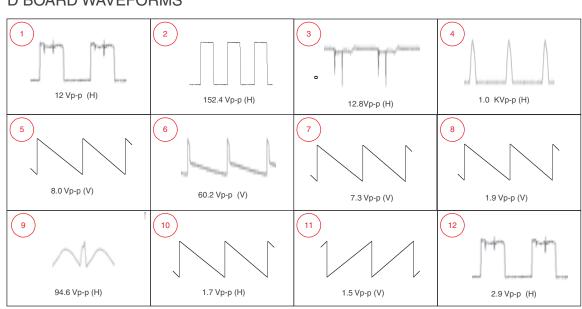
Deflection & HV System Block

CXA2170Q

DY-v	V DEF ← **STV9379 Vout** ← VDRV+/VDRV-
	→ V PROT

Horizontal deflection block

	B+ Chopper ← EW DRV ← EW_DRV
DY-h	H DEF ← **Horizontal Out**
	LA6500 H Center ← H CENT ← HC_PARA
	H DRV/HPROT/HP IN ← H PROT / HP_IN / H_DRV
	S Correction ← M PIN ← MP_PARA

CRT	HV/FV ← **HV Reg** ← *AC RECT*
	DF →
	ABL S → ABL_IN

Rotation coil	← **LA6500 N/S out** ← VSAW1
Neck-Assy	← **LA6500 x2 DQP** ← VPARA1/VPARA2
	← **LA6500 V pin out** ← VSAW0
CY	← **CXA8070AP/** STK390-910 DC ← V DRV-/V SIN
	Vcc 9V ←
	Vcc 5V ←

BLOCK DIAGRAMS (3 OF 3)

Power Supply Load Map

D

AC Rect

Main Power Supply

15V → 12V Reg

-15V → -12V Reg

135V

High voltage Regulator

DF

PWM Chopper

HOT

200V

Vout

H center

Heater

CRT 31.5kV

H deflection

DQP

Au 24V → Audio Amp

3.3V Reg

5V Reg

9V Reg

A

Main Tuner

Sub Tuner

M

B

9V

NS

Vpin

VM

W

12V

Video out

C

5-4. SCHEMATICS AND SUPPORTING INFORMATION
D BOARD SCHEMATIC DIAGRAM (1 OF 2)

D BOARD WAVEFORMS

1. 12 Vp-p (H)
2. 152.4 Vp-p (H)
3. 12.8Vp-p (H)
4. 1.0 KVp-p (H)
5. 8.0 Vp-p (V)
6. 60.2 Vp-p (V)
7. 7.3 Vp-p (V)
8. 1.9 Vp-p (H)
9. 94.6 Vp-p (H)
10. 1.7 Vp-p (H)
11. 1.5 Vp-p (V)
12. 2.9 Vp-p (H)

D BOARD IC VOLTAGE LIST

IC5001		IC5007		2	1.0	6	0.0	6	0.0
PIN	VOLT	PIN	VOLT	3	-15.8	7	4.6	7	4.6
1	10.9	1	2.4	4	1.7	8	17.9	8	17.9
2	10.9	2	0.7	5	12.0	9	0.0	9	0.0
3	N/C	3	9.0	IC5511		10	10.5	10	10.5
4	GND	4	1.6	PIN	VOLT	11	GND	11	GND
5	3.9	5	GND	1	4.0	12	4.8	12	4.8
6	3.9	6	3.9	2	5.8	13	N/C	13	N/C
7	4.7	7	2.7	3	5.8	14	151.8	14	151.8
8	12.0	8	0.4	4	GND	15	142.2	15	142.2
IC5002		9	3.0	5	2.6	16	146.3	16	146.3
PIN	VOLT	10	N/C	6	2.6	17	N/C	17	N/C
1	5.6	11	N/C	7	7.6	18	306.1	18	306.1
2	2.6	12	GND	8	12.0	IC6503		IC8004	
3	5.9	13	N/C	IC5512		PIN	VOLT	PIN	VOLT
4	GND	14	0.7	PIN	VOLT	1	133.8	1	6.9
5	5.1	IC5502		I	-15.0	2	N/C	2	6.9
6	5.6	PIN	VOLT	O	-12.0	3	6.9	3	GND
7	4.8	1	6.9	G	GND	4	11.0	4	GND
8	12.0	2	0.5	IC5515		5	GND	5	6.9
IC5004		3	12.0	PIN	VOLT	IC6505		6	6.9
PIN	VOLT	4	2.7	1	0.0	PIN	VOLT	7	6.9
1	1.2	5	3.7	2	0.0	1	134.4	8	15.0
2	14.1	6	2.6	3	0.0	2	15.4	IC8005	
3	-13.1	7	4.4	4	-11.9	3	GND	PIN	VOLT
4	-15.3	8	N/C	5	6.0	IC8001		1	2.5
5	0.0	9	N/C	6	6.0	PIN	VOLT	2	GND
6	14.6	10	N/C	7	6.0	1	0.1	3	9.9
7	1.2	11	N/C	8	9.0	2	2.5	IC8006	
IC5005		12	GND	IC6500		3	2.1	PIN	VOLT
PIN	VOLT	IC6500		PIN	VOLT	4	GND	1	0.0
1	99.4	14	N/C	I	15.0	5	2.3	2	2.5
2	99.1	IC5504		O	12.0	6	2.3	3	2.2
3	94.6	PIN	VOLT	G	GND	7	0.0	4	GND
4	98.8	1	1.6	4	N/C	8	17.5	5	7.5
5	105.0	2	1.6	IC6501		IC8002		6	4.5
IC5006		3	GND	PIN	VOLT	PIN	VOLT	7	14.8
PIN	VOLT	4	5.4	1	2.8	1	2.6	8	15.0
I	7.7	5	12.0	2	1.8	2	1.8	IC8104	
O	6.3	IC5506		3	2.2	3	2.2	PIN	VOLT
G	GND	PIN	VOLT	4	2.5	4	2.5	1	2.5
VC	N/C	1	1.0	5	GND	5	GND	2	GND
								3	2.5

All voltages are in V.

CAUTION !
IC5004 HEAT SINK IS -15V CARE MUST BE TAKEN NOT TO
ALLOW HEAT SINK TO TOUCH ANY OTHER COMPONENTS

D (1/2)
H/V DRIVE
H/V DY

DY

9-965-937-01(DAA) D(1/2)

(POWER SUPPLY)

(HV REG)

D (2/2)
POWER SUPPLY
AC RECT
DEFLECTION

D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E		B	C	E
Q5001	4.8	12	4.9	Q5505	0.4	9.0	0.0
Q5002	4.8	GND	4.9	Q5506	0.0	2.7	GND
Q5004	133.3	3.7	132.7	Q5510	0.7	8.3	0.8
Q5005	0.0	14.1	0.2	Q5512	4.4	12.0	3.8
Q5006	11.2	12.0	10.7	Q5513	1.3	8.7	4.2
Q5009	0.0	0.1	GND	Q5568	6.9	12.0	7.0
Q5010	0.1	0.8	GND	Q5569	6.9	0.0	7.0
Q5012	3.4	97.5	2.9	Q6522	15.4	0.0	15.4
Q5013	2.8	GND	3.4	Q6527	0.8	0.1	GND
Q5018	0.7	0.0	GND	Q6530	3.2	0.0	3.2
Q5019	2.2	9.0	2.1	Q6532	0.0	3.2	GND
Q5020	2.2	GND	2.1	Q8003	0.1	2.6	GND
Q5021	0.9	9.0	1.3	Q8004	0.1	2.6	GND
Q5022	0.6	GND	1.2	Q8007	0.6	0.1	GND
Q5023	0.2	3.9	GND	Q8008	0.6	0.1	GND
Q5024	2.4	9.0	2.2	Q8011	11.9	0.0	12.0
Q5025	0.9	-15.0	1.3	Q8015	0.6	0.0	GND
Q5026	3.8	9.0	3.8	Q8016	132.6	132.4	133.3
Q5027	3.8	0.0	3.8	Q8018	0.0	86.6	GND
Q5030	0.0	84.3	GND	Q8019	0.6	0.0	GND
Q5035	0.0	2.1	GND	Q8020	0.0	0.6	GND
Q5036	0.2	3.8	GND	Q8021	11.7	0.0	12.0
Q5043	0.1	2.4	GND	Q8022	3.4	GND	3.5
Q5044	0.0	0.1	GND	Q8023	3.4	9.0	3.5
Q5501	0.5	3.4	GND	Q8028	0.0	11.7	GND
Q5502	0.0	6.9	GND	Q8034	0.0	12.0	GND
Q5503	0.0	0.5	GND	Q8035	11.6	2.5	12.0
Q5504	0.2	-12.0	0.8				

	D	G	S
Q5003	10.9	128.8	135.0
Q5028	63.9	3.8	GND
Q5031	14.6	2.1	GND
Q5507	10.5	6.9	GND
Q6506	140.1	4.8	GND
Q6507	305.6	145.1	140.1
Q8013	136.0	4.5	GND
Q8014	305.0	131.0	136.0

All voltages are in V.

9-965-937-01<DA4> D(2/2)

D [H/V DRIVE, H/V DY, POWER SUPPLY, AC RECT DEFLECTION]

COMPONENT SIDE

D [H/V DRIVE, H/V DY, POWER SUPPLY, AC RECT DEFLECTION]

CONDUCTOR SIDE

D BOARD LOCATOR LIST

DIODE				
D5001	F-6	D8007	E-8	Q5013	H-12
D5002	F-6	D8009	C-8	Q5014	I-7
D5003	G-9	D8010	B-6	Q5018	H-6
D5004	F-10	D8011	B-5	Q5019	E-7
D5005	F-5	D8012	B-6	Q5020	E-8
D5006	H-6	D8013	A-5	Q5021	G-5
D5007	D-8	D8014	B-5	Q5022	H-6
D5008	H-7	D8015	B-10	Q5023	G-5
D5010	H-7	D8016	C-10	Q5024	G-6
D5011	H-11	D8017	C-10	Q5025	G-5
D5014	F-7	D8018	D-12	Q5026	G-6
D5016	H-10	D8019	D-9	Q5027	G-6
D5017	H-10	D8022	C-7	Q5028	F-10
D5018	G-7	D8023	C-9	Q5030	F-11
D5019	G-5	D8024	B-7	Q5031	E-8
D5023	G-11	D8026	C-10	Q5035	H-8
D5027	H-8	D8028	E-8	Q5036	G-6
D5028	G-6	D8030	B-10	Q5501	H-4
D5032	H-11	D8034	D-7	Q5502	G-4
D5035	G-7	D8140	F-5	Q5503	H-4
D5036	G-7	IC		Q5504	F-1
D5501	H-5	IC5001	G-7	Q5505	F-1
D5502	G-4	IC5002	H-7	Q5506	G-5
D5504	G-1	IC5004	F-6	Q5507	G-3
D5506	G-4	IC5005	H-12	Q5510	H-3
D5508	G-1	IC5006	E-6	Q5512	H-2
D5511	H-3	IC5007	H-6	Q5513	H-1
D5512	G-1	IC5502	G-4	Q5568	G-4
D5513	H-4	IC5504	G-2	Q5569	G-3
D5514	G-3	IC5506	F-3	Q6506	C-4
D5515	H-4	IC5511	G-2	Q6507	B-4
D6502	C-4	IC5512	F-1	Q6522	F-3
D6504	E-2	IC5515	H-4	Q6527	C-1
D6505	C-1	IC6500	H-2	Q6530	D-1
D6508	G-4	IC6501	B-5	Q6532	C-1
D6509	A-3	IC6503	F-4	Q8003	B-7
D6510	B-3	IC6505	G-4	Q8004	B7
D6513	D-2	IC8001	D-6	Q8007	C-9
D6514	D-2	IC8002	B-6	Q8008	E-9
D6516	D-2	IC8004	D-8	Q8011	B-10
D6518	E-5	IC8005	D-6	Q8013	B-6
D6519	C-5	IC8006	D-8	Q8014	A-5
D6520	C-5	IC8104	C-5	Q8015	C-11
D6523	E-3	TRANSISTOR		Q8016	C-11
D6524	F-4	Q5001	F-10	Q8018	D-10
D6530	A-2	Q5002	F-10	Q8019	E-11
D6532	B-2	Q5003	F-9	Q8020	D-11
D6533	C-1	Q5004	F-5	Q8021	B-10
D6534	B-1	Q5005	F-6	Q8022	D-10
D6537	G-5	Q5006	G-7	Q8023	D-10
D6538	F-3	Q5007	G-7	Q8028	C-10
D8001	C-6	Q5008	H-7	Q8034	D-7
D8003	C-5	Q5009	F-6	Q8035	D-7
D8005	D-8	Q5010	F-5		
D8006	D-8	Q5011	I-7		
		Q5012	I-11		

1-684-618-21

M BOARD SCHEMATIC DIAGRAM (1 OF 4) Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

KV-32HS510/34DRC510/34HS510/36HS510/38DRC510

M BOARD WAVEFORMS

M BOARD 1/4

VIDEO PROCESSOR

9-965-937-01<0A4>M(1/4)

M BOARD SCHEMATIC DIAGRAM (2 OF 4) Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

M BOARD 2/4

3D-COMB

9-965-937-01<DA4>M(2/4)

M BOARD SCHEMATIC DIAGRAM (3 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

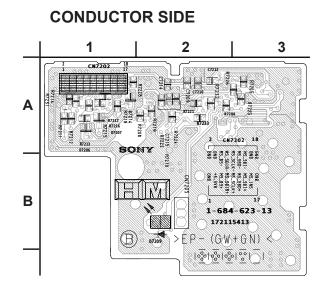## M BOARD 3/4

MICRO (MAIN,CCD)

9-965-937-01<DA4>M(3/4)

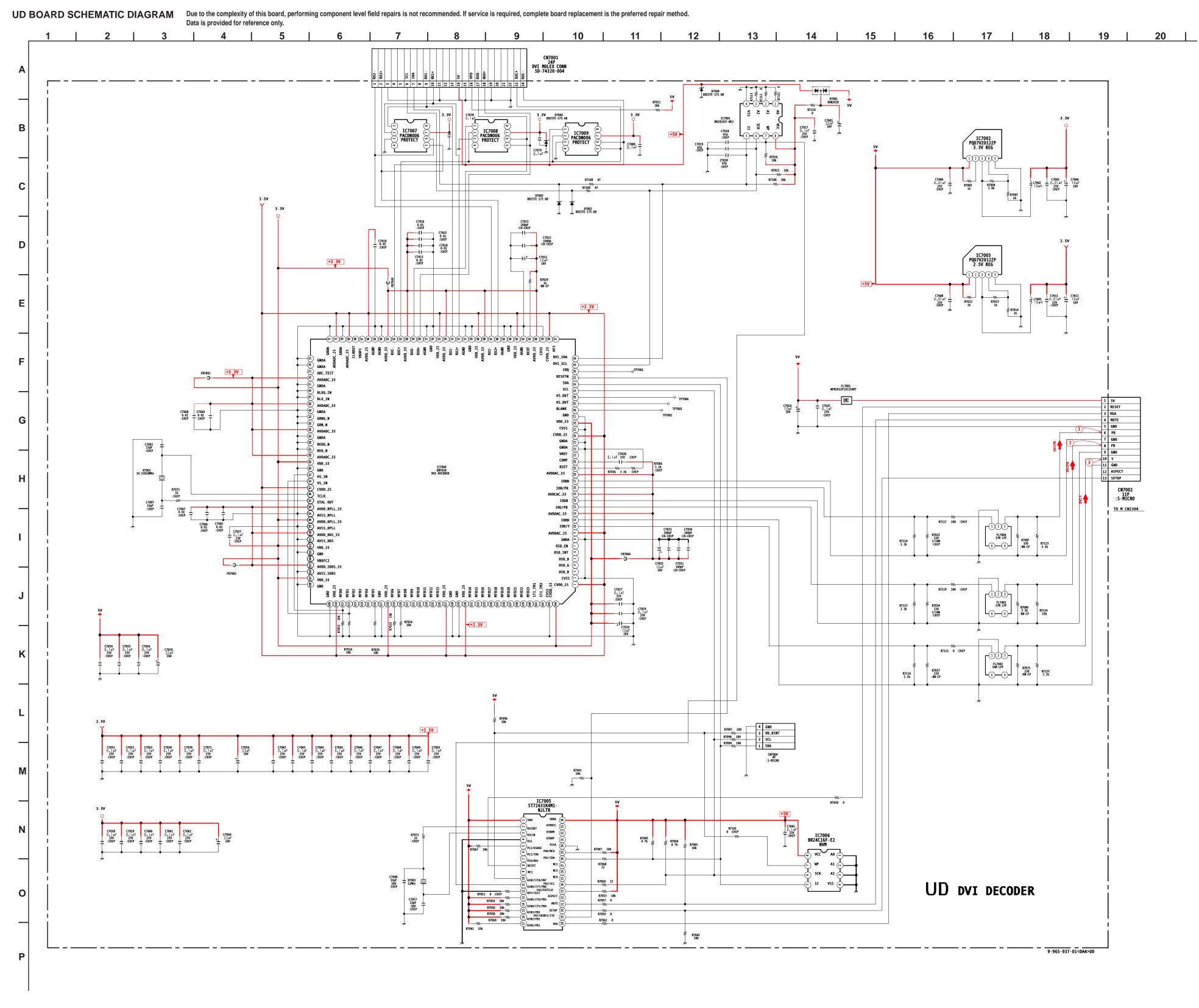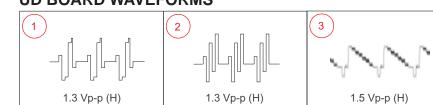**M BOARD SCHEMATIC DIAGRAM (4 OF 4)** Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.
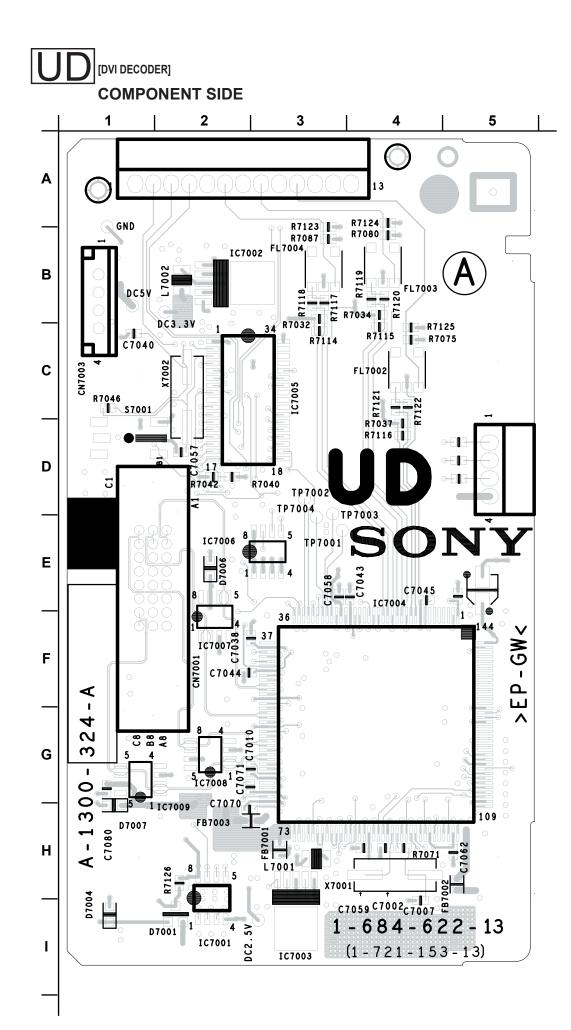

M BOARD 4/4
AUDIO PROCESSOR

9-965-937-01<DA4>M(4/4)

M [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

COMPONENT SIDE

CONDUCTOR SIDE

U BOARD SCHEMATIC DIAGRAM

U BOARD WAVEFORMS

1	2
1.7 Vp-p (H)	2.2 Vp-p (H)

U BOARD IC VOLTAGE LIST

IC1502		21	4.9	43	4.5	IC1505	
PIN	VOLT	22	3.9	44	4.3	PIN	VOLT
1	3.9	23	4.5	45	4.5	1	4.7
2	4.5	24	N/C	46	N/C	2	0.0
3	3.9	25	4.5	47	4.5	3	3.2
4	4.5	26	N/C	48	N/C	4	GND
5	3.9	27	N/C	49	4.9	5	3.2
6	N/C	28	N/C	50	4.5	6	3.2
7	4.9	29	4.5	51	4.5	7	0.0
8	4.3	30	3.9	52	N/C	8	4.6
9	4.5	31	4.5	53	4.4	9	4.6
10	3.9	32	GND	54	N/C	10	GND
11	4.5	33	4.6	55	N/C	11	4.7
12	4.5	34	4.6	56	4.1	12	9.0
13	N/C	35	GND	57	GND	13	9.0
14	4.9	36	N/C	58	4.4	14	4.7
15	3.9	37	N/C	59	4.5	15	GND
16	4.5	38	4.5	60	5.0	16	4.7
17	3.9	39	N/C	61	4.5	All voltages are in V.	
18	4.5	40	4.5	62	4.5		
19	4.5	41	4.4	63	4.9		
20	N/C	42	9.0	64	4.5		

U BOARD TRANSISTOR TABLE

	B	C	E
Q1501	2.0	GND	2.7
Q1502	3.3	GND	4.0
Q1503	4.5	GND	5.2
Q1504	4.5	GND	5.2
Q1505	1.6	3.7	0.9
Q1506	4.4	8.3	3.8
Q1507	0.0	0.0	0.0
Q1508	0.0	0.0	GND
Q1509	0.0	4.9	GND
Q1510	0.0	0.0	GND
Q1511	8.5	0.0	9.0
Q1512	8.4	5.3	9.0
Q1513	3.8	8.4	3.2
Q1515	4.9	4.2	5.0
Q1516	0.6	0.1	GND
Q1518	0.0	4.9	GND
Q1519	5.0	0.0	0.0
Q1520	0.6	0.0	GND
Q1521	0.1	5.0	0.0
Q1522	5.0	0.0	0.0
Q1523	4.5	9.0	3.9
Q1524	6.5	9.0	3.9

All voltages are in V.

U
A/V SWITCH
TERMINAL BLOCK

9-965-937-01<DA4> U

U [A/V SWITCH, TERMINAL BLOCK]

COMPONENT SIDE

CONDUCTOR SIDE

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
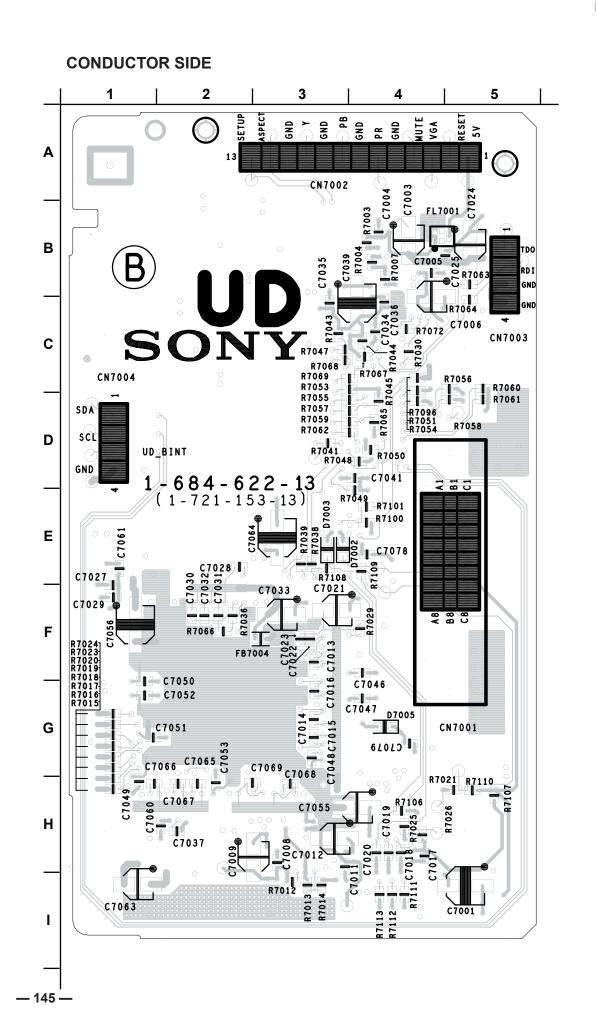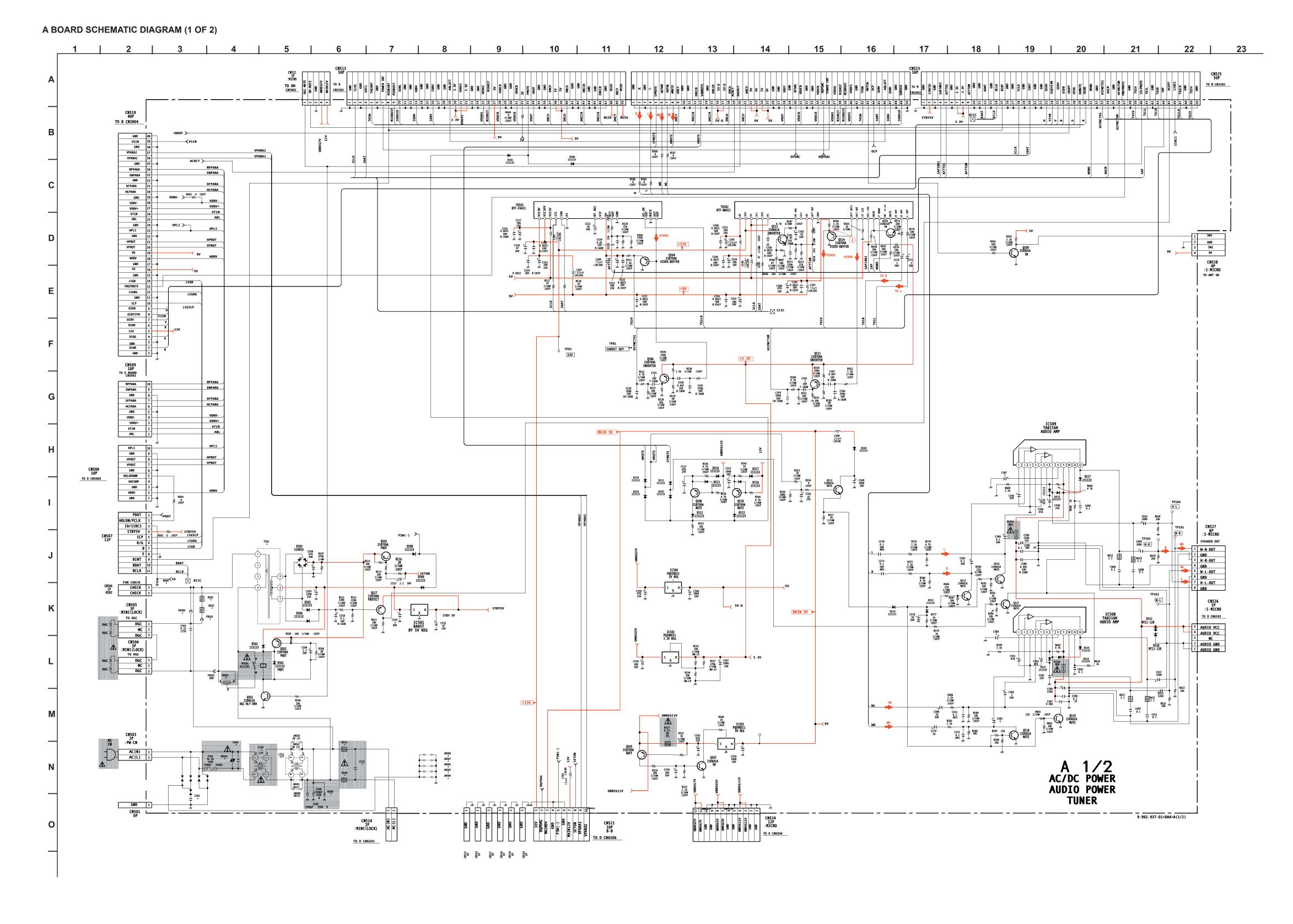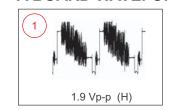Data is provided for reference only.

BM1C P1
MEMORY STICK
DECODER BOARD

9-965-937-01<DA4>BM1C P1

BM1C BOARD SCHEMATIC DIAGRAM (2 OF 2)   Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

KV-32HS510/34DRC510/34HS510/36HS510/38DRC510

BM1C P2
JPEG ENG

9-965-937-01<DA4>BMC1 P2

BM1C [MEMORY STICK, DECODER BOARD, JPEG ENG]

COMPONENT SIDE

CONDUCTOR SIDE

HM BOARD SCHEMATIC DIAGRAM

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

HM MEMORY STICK TERMINAL BOARD

9-965-937-01<DA4>HM

HM [MEMORY STICK TERMINAL BOARD]

COMPONENT SIDE

CONDUCTOR SIDE

UD BOARD SCHEMATIC DIAGRAM Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

UD BOARD WAVEFORMS

①	②	③
1.3 Vp-p (H)	1.3 Vp-p (H)	1.5 Vp-p (H)

CN7001
28P
DVI MOLEX CONN
SD-74320-004

IC7007
PACDN006
PROTECT

IC7008
PACDN006
PROTECT

IC7009
PACDN006
PROTECT

IC7002
PQ07V201Z2P
3.3V REG

IC7003
PQ07V201Z2P
2.5V REG

IC7004
GM3036
DVI DECODER

IC7005
ST72631K4M1-
MULTR

IC7006
BR24C16F-E2
NVR

CN7002
11P
:S-MICRO
TO M CN2304

CN7004
:S-MICRO

UD DVI DECODER

9-965-937-01<0A4>UD

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UD [DVI DECODER]

COMPONENT SIDE

GND
DC5V
DC3.3V
CN7003
R7046
S7001
X7002
L7002
IC7002
FL7004
C7040
R7123 R7124
R7087 R7080
R7118 R7117 R7119 R7120
R7032 R7034
R7114 R7115
FL7003
FL7002
R7121 R7122
R7037 R7116
R7125 R7075
C7057
R7042 R7040
IC7005
A
TP7002 TP7004 TP7003 TP7001
IC7006 D7006
C7058 C7043 C7045 IC7004
C7038
IC7007 C7044 CN7001
IC7008 C7071 C7010
C7070 IC7009 FB7003
C7080 IC7001 D7007
R7126 D7004 D7001 DC2.5V
IC7003
X7001 C7059 C7002 C7007 FB7002
L7001 FB7001 R7071 C7062
C8 B8 A8
A-1300-324-A
>EP-GW<
UD SONY
1-684-622-13
(1-721-153-13)
36 37 73 144 109 17 18 34 1 4 5 8 13

CONDUCTOR SIDE

SETUP ASPECT GND Y GND PB GND PR MUTE VGA RESET 5V
CN7002
13 1
CN7004
SDA SCL GND
UD_BINT
1-684-622-13
(1-721-153-13)
B
UD SONY
C7035 C7039 C7004 C7003
R7043 C7034 C7036
R7047 R7044 R7030
R7068 R7067 R7045 C7006
R7069 R7065 R7096
R7053 R7051
R7055 R7054
R7057 R7058
R7059
R7062
R7041 R7048 R7050
R7049 R7101 R7100
C7061 C7064 R7039 R7038 D7003 C7078
C7027 R7036 R7108 R7109
C7029 C7030 C7028 C7033 C7021
C7056 C7032 C7031 R7066 C7023 R7029
C7022 C7016 C7013
R7024 FB7004 C7046
R7023 C7050 C7047
R7020 C7052 D7005
R7019 C7014 CN7001
R7018 C7051 C7048 C7015 C7079
R7017 C7053
R7016 C7066 C7065 C7069 C7068
R7015 C7049 C7060 C7067 C7055 R7021 R7110
C7037 C7019 R7106 R7107
C7009 C7008 C7012 R7025 R7026
C7011 C7020 R7018 C7017
R7012 R7111 C7018
R7013 R7014 R7113 R7112 C7001
C7063
TDO RDI GND GND
CN7003
R7063 R7064
FL7001 C7005 C7025 C7024
C7007 R7072
A1 B1 C1
A8 B8 C8
R7056 R7060 R7061

A BOARD WAVEFORM

1.9 Vp-p (H)

A BOARD IC VOLTAGE LIST

IC501		IC508		8	5.1	IC903	
PIN	VOLT	PIN	VOLT	10	0.0	PIN	VOLT
I	7.0	1	1.6	11	4.4	1	4.9
O	5.0	2	0.1	12	10.7	2	4.9
GND	GND	3	GND			3	4.9
IC502		4	0.1	IC900		4	4.9
PIN	VOLT	5	1.6	PIN	VOLT	5	N/C
I	5.0	6	7.9	1	3.3	6	5.0
O	3.3	7	11.0	2	3.3	7	5.0
GND	GND	8	5.1	3	0.1	8	5.0
4	3.4	9	24.0	4	-15.7	9	5.0
IC504		10	0.0	5	GND	10	12.0
PIN	VOLT	11	4.4	6	15.3	11	4.5
I	7.0	12	10.6	7	N/C	12	5.0
O	5.0	IC509		8	3.3	13	5.0
GND	GND	PIN	VOLT	9	GND	14	1.2
4	N/C	1	1.6	IC901		15	5.0
IC505		2	0.1	PIN	VOLT	16	4.6
PIN	VOLT	3	GND	I	11.0	17	4.6
I	11.0	4	0.1	O	5.0	18	GND
O	9.0	5	1.6	GND	GND	All voltages are in V.	
GND	GND	6	8.0				
4	2.3	7	11.0				

A BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q501	0.1	19.4	GND
Q502	21.3	19.4	21.3
Q503	21.2	0.2	21.3
Q504	3.9	GND	4.5
Q505	10.0	0.1	11.0
Q506	3.5	0.5	3.3
Q507	0.1	2.3	GND
Q508	10.5	0.0	0.0
Q509	0.7	0.1	GND
Q510	12.0	0.0	12.0
Q511	0.1	7.5	GND
Q512	3.3	0.5	3.3
Q513	0.0	9.0	0.0
Q514	5.9	GND	6.5
Q515	0.0	0.0	GND
Q516	0.0	0.0	GND
Q517	0.0	4.4	GND
Q518	0.0	0.0	GND
Q519	0.0	0.0	GND
Q524	0.7	0.1	GND
Q527	9.8	0.0	5.0

All voltages are in V.

A 1/2
AC/DC POWER
AUDIO POWER
TUNER

9-965-937-01<DA4>A(1/2)

A BOARD SCHEMATIC DIAGRAM (2 OF 2)

A 2/2

DY-CONV.

9-965-937-01<DA4>A(2/2)

A [AC/DC POWER, AUDIO POWER, TUNER, DY-CONV]
COMPONENT SIDE

A

[AC/DC POWER, AUDIO POWER, TUNER, DY-CONV]

CONDUCTOR SIDE

A BOARD LOCATOR LIST

DIODE		IC	
D501	C-7	IC501	C-4
D502	C-7	IC502	D-8
D503	C-6	IC504	C-8
D504	C-6	IC505	E-8
D505	C-6	IC508	D-10
D508	C-8	IC509	B-10
D509	C-8	IC900	G-10
D510	G-11	IC901	F-11
D511	G-11	IC903	H-11
D512	G-11	TRANSISTOR	
D513	G-11	Q501	C-7
D514	G-11	Q502	B-7
D515	G-11	Q503	C-8
D516	F-11	Q504	D-6
D517	F-11	Q505	F-8
D519	F-11	Q506	D-5
D520	F-10	Q507	E-8
D521	C-9	Q508	G-10
D522	E-9	Q509	E-2
D523	B-9	Q510	G-11
D524	D-11	Q511	F-4
D525	B-10	Q512	F-6
D526	E-11	Q513	F-10
D527	B-10	Q514	F-5
D530	D-12	Q515	B-9
D531	D-12	Q516	B-9
D534	G-11	Q517	C-9
D535	G-11	Q518	D-9
D540	H-5	Q519	E-9
D541	G-10	Q524	F-6
D900	H-11	Q527	C-3
D901	F-11		
D903	H-11		

B BOARD SCHEMATIC DIAGRAM (1 OF 5)   Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

KV-32HS510/34DRCS510/34HS510/36HS510/38DRC510

B BOARD WAVEFORMS

IC3303
CXD2095AQ
DRC-RF

B (1/5)
AD-DRC

B (2/5)

MID-XA

9-965-937-01<DA4> B(2/5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

B BOARD WAVEFORMS

①	②	③
1.5 Vp-p (V)	1.7 Vp-p (V).	2.9 Vp-p (H)
④	⑤	⑥
3.0 Vp-p (V)	2.3 Vp-p (V).	2.4 Vp-p (H)

B (3/5)
CRT DRIVE

9-965-937-01<DA> B(3/5)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

B (4/5)

A/D (DNR)

9-965-937-01<DA4> B(4/5)

B BOARD SCHEMATIC DIAGRAM (5 OF 5)   Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.

Data is provided for reference only.

KV-32HS510/34DRCS510/34HS510/36HS510/38DRC510

B (5/5)
Differential Input

9-965-937-01<DA4> B(5/5)

B [AD-DRC, MID-XA, CRT DRIVE, A/D (DNR), DIFFERENTIAL INPUT]

COMPONENT SIDE

1-684-698-13 ① Ⓐ

Ⓑ SONY

172118613

MADE IN JAPAN

>EP-GW<

A-1300-325-A

HB BOARD SCHEMATIC DIAGRAM

HB FRONT TERMINAL

9-965-937-01<DA4>HB

HB [FRONT TERMINAL]

COMPONENT SIDE

CONDUCTOR SIDE
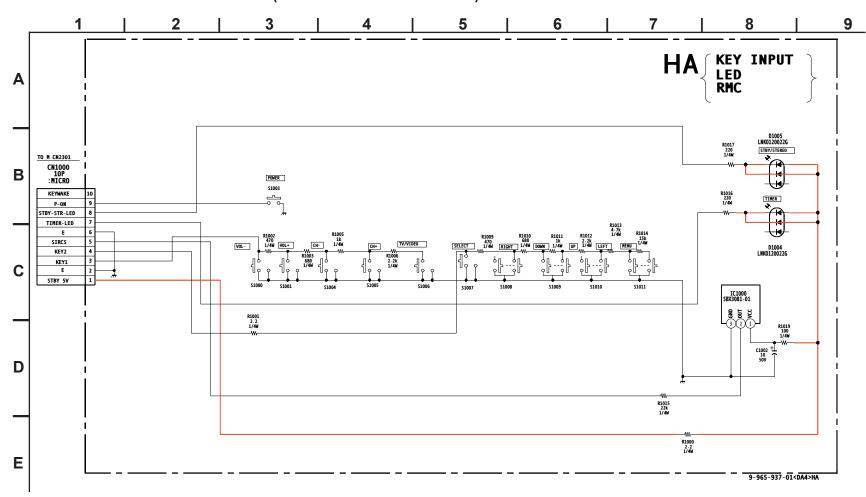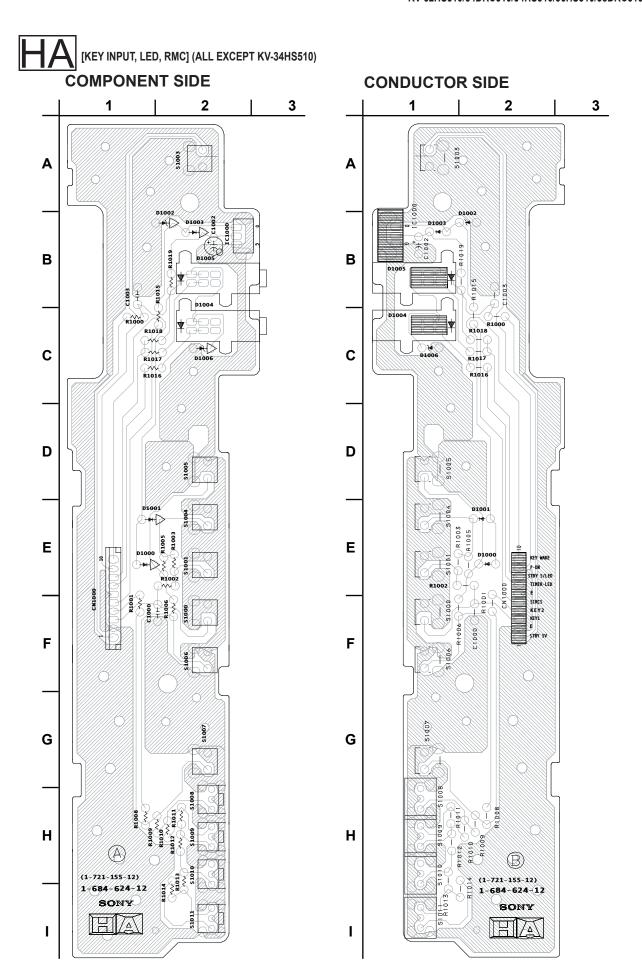
HA BOARD SCHEMATIC DIAGRAM (ALL EXCEPT KV-34HS510)

HA { KEY INPUT / LED / RMC }

HA [KEY INPUT, LED, RMC] (ALL EXCEPT KV-34HS510)

COMPONENT SIDE

CONDUCTOR SIDE
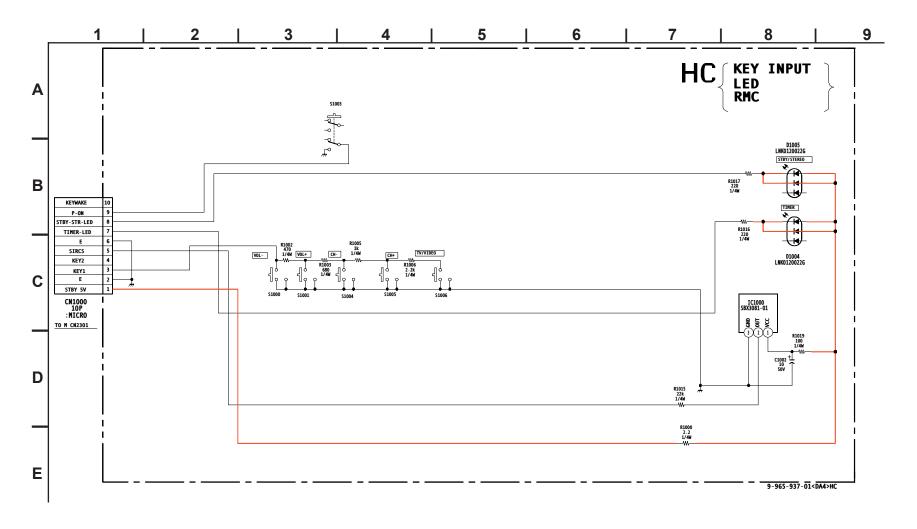
HA BOARD IC VOLTAGE TABLE

IC1001	
PIN	VOLT
1	5.0
2	5.0
3	GND

All voltages are in V.

9-965-937-01<DA4>HA

HC BOARD SCHEMATIC DIAGRAM (KV-34HS510 ONLY)

HC { KEY INPUT
LED
RMC }

S1003

D1005
LNK0120022G
STBY/STEREO

R1017
220
1/4W

TIMER

R1016
220
1/4W

D1004
LNK0120022G

KEYWAKE	10
P-ON	9
STBY-STR-LED	8
TIMER-LED	7
E	6
SIRCS	5
KEY2	4
KEY1	3
E	2
STBY 5V	1

CN1000
10P
:MICRO

TO M CN2301

R1002
470
1/4W
VOL-

VOL+

R1005
1k
1/4W
CH-

R1003
680
1/4W

CH+

TV/VIDEO

R1006
2.2k
1/4W

S1000   S1001   S1004   S1005   S1006

IC1000
SBX3081-01

GND OUT VCC
3   2   1

R1019
100
1/4W

C1002
10
50V

R1015
22k
1/4W

R1000
2.2
1/4W

9-965-937-01<DA4>HC

HC [KEY INPUT, LED. RMC] (KV-34HS510 ONLY)

COMPONENT SIDE

CONDUCTOR SIDE

CX BOARD SCHEMATIC DIAGRAM

CX (VIDEO OUT)

9-965-937-01<DA>CX

CX BOARD IC VOLTAGE TABLE
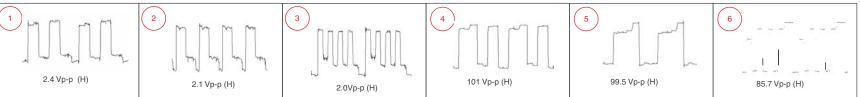
IC9001		IC9002		IC9003	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	0.0	1	0.0	1	0.0
2	3.5	2	3.5	2	3.5
3	5.0	3	5.0	3	5.0
4	3.5	4	3.5	4	3.5
5	0.0	5	0.0	5	0.0
6	12.0	6	12.0	6	12.0
7	9.4	7	9.4	7	9.4
8	GND	8	GND	8	GND
9	N/C	9	N/C	9	N/C
10	200.0	10	200.0	10	200.0
11	N/C	11	N/C	11	N/C
12	144.4	12	154.0	12	145.0
13	2.2	13	124.0	13	24.5

All voltages are in V.

CX BOARD TRANSISTOR TABLE
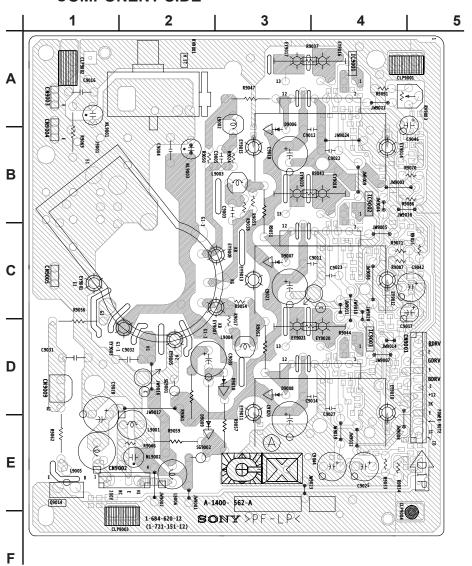
	B	C	E
Q9001	8.6	GND	3.6
Q9003	2.2	12.0	3.6
Q9004	2.2	12.0	3.7
Q9005	2.2	12.0	3.5
Q9007	9.1	12.0	8.4
Q9009	3.7	GND	4.3
Q9010	3.7	GND	4.4
Q9011	3.5	GND	4.2
Q9013	9.0	12.0	8.5
Q9014	0.0	264.7	GND
Q9015	9.0	12.0	8.5
Q9016	0.0	12.0	3.5

All voltages are in V.

36RV2

CX BOARD WAVEFORMS

① 2.4 Vp-p (H)
② 2.1 Vp-p (H)
③ 2.0 Vp-p (H)
④ 101 Vp-p (H)
⑤ 99.5 Vp-p (H)
⑥ 85.7 Vp-p (H)

CX [VIDEO OUT]

COMPONENT SIDE
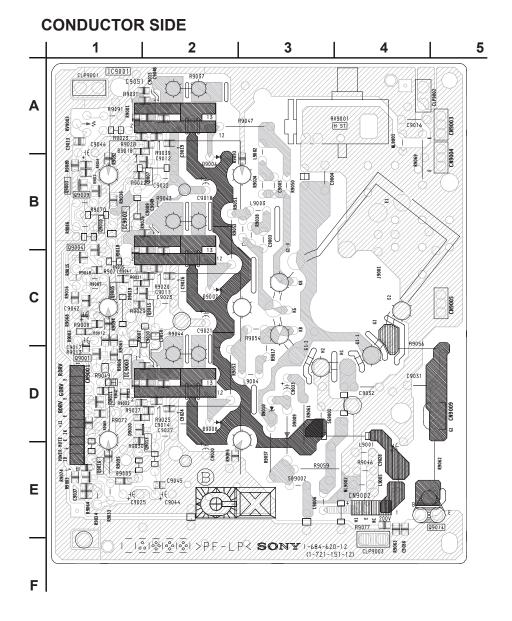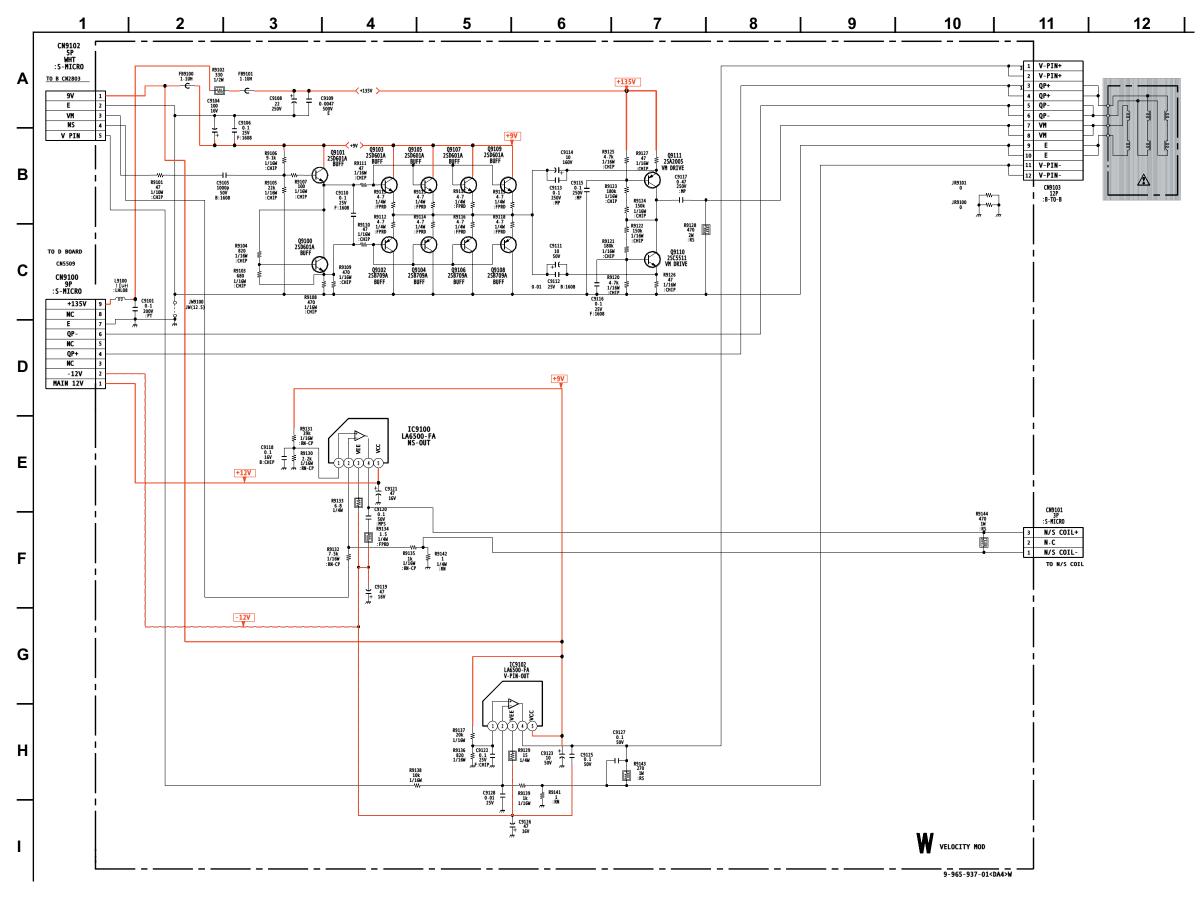
CONDUCTOR SIDE

W BOARD SCHEMATIC DIAGRAM

W BOARD IC VOLTAGE LIST

IC9100		IC9102	
PIN	VOLT	PIN	VOLT
1	0.5	1	0.3
2	0.5	2	0.3
3	-11.9	3	-11.9
4	0.3	4	6.7
5	12.0	5	9.0

All voltages are in V.
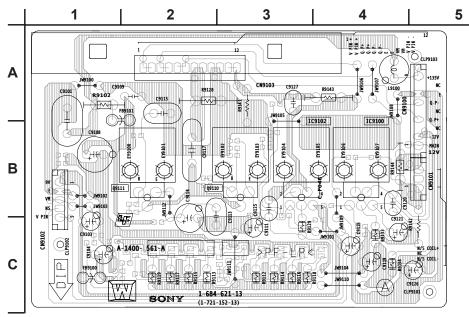
W BOARD TRANSISTOR TABLE

	B	C	E
Q9100	4.3	5.2	3.6
Q9101	0.0	9.0	5.2
Q9102	3.6	GND	4.3
Q9103	5.1	9.0	4.5
Q9104	3.6	GND	4.3
Q9105	5.1	9.0	4.5
Q9106	3.6	GND	4.3
Q9107	5.1	9.0	4.5
Q9108	3.6	GND	4.3
Q9109	5.1	9.0	4.5
Q9110	0.8	66.7	0.2
Q9111	133.8	66.7	134.3

All voltages are in V.

W VELOCITY MOD

9-965-937-01<DA4>W

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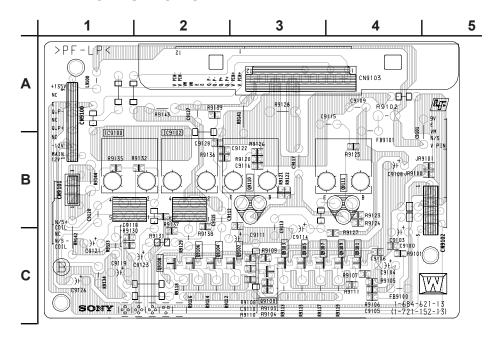
W [VELOCITY MOD]

COMPONENT SIDE

CONDUCTOR SIDE

5-5. SEMICONDUCTORS (1 OF 2)

TOP VIEW 14pin M52055FP TLC2932IPW TLC2933IPWR-12	TOP VIEW 16pin CXD2085M-T4 SN74LV4053ANSR	TOP VIEW 32pin BH3868AFS-E2	5pin PST9120NL PST9145NL TC7SET08FU(TE85L)	TOP VIEW 22pin CXA2026AS
32pin CXD2073Q-T4	TOP VIEW 48pin CXA2103Q CXA2150Q	TOP VIEW 64pin TLC5733AIPM	240pin CXD9509AQ	INDEX TOP VIEW CXA2151Q
INDEX TOP VIEW M306V2ME-153FP	NJM79M12FA	LA6500-FA	E C B 2SA1208S-TP 2SA1091O-TPE	B C E IRF614 IRFI644-G-LF36 IRFI9630GS
B C E 2SA2005 2SC5511	LETTER SIDE E C B 2SC3311A-QRSTA	B C E 2SK2036(TE85L)	C B E	DTA114EKA-T146 DTC114TKA-T146 DTC144EKA-T146 2SA1226 2SD601A-QRS-TX 2SB709A-QRS-TX 2SC2412K-T-146-QR 2SD2114KT146
TDA6111Q/N4	B C E 2SC4632LS-CB7	MARKING SIDE VIEW CATHODE ANODE CATHODE D5LC20U	TOP VIEW 8pin	NJM2901M-TE2 NJM2903M-TE2 NJM2904M-TE2 NJM4558E(TE2) TC7WU04FU(TE12R)

SEMICONDUCTORS (2 OF 2)

PQ07VZ012P	PQ09RD21 PQ05RF21 PQ12RF21 PQ30RV21	STV9379	2SA1776TV2Q 2SA1309A-QRSTA	2SC3997S-SONY
2SC2688-LK 2SC3840K	UPC1093J	D5SC4M D8LC40F	S1VB20	D6SB60L D1NL40-TA2
MA111-TX MA113-TX UDZSTE-1710B UDZSTE-176.8B UDZSTE-17-12	1SS133T-77 D1NL20U-TR ERC91-02E	PG124S15	MA153-TX	MA3091-TX
DAN202K-T-146	D4SBS6-F	CXA2069Q CXP85840A-039Q	D1NL20U-TA2 ERA22-08TP3 ERC04-06SE GP08DPKG23 HSS83TD HZU11B1TRF RGP02-20EL-6394 MTZJ-77-22B	
			D1NS4-TA2 MTZJ-T-77-3.9B MTZJ-T-77-15 MTZJ-T-77-33C MTZJ-T-77-15B MTZJ-T-77-4.7B MTZJ-T-77-33B MTZJ-T-77-5.1B MTZJ-T-77-10 MTZJ-T-77-7.5B MTZJ-T-77-12 RD5.6ES-T1B2 MTZJ-T-77-13C MTZJ-T-77-2.0A MTZJ-T-77-22 MTZJ-T-77-3.0B	

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SECTION 6: EXPLODED VIEWS
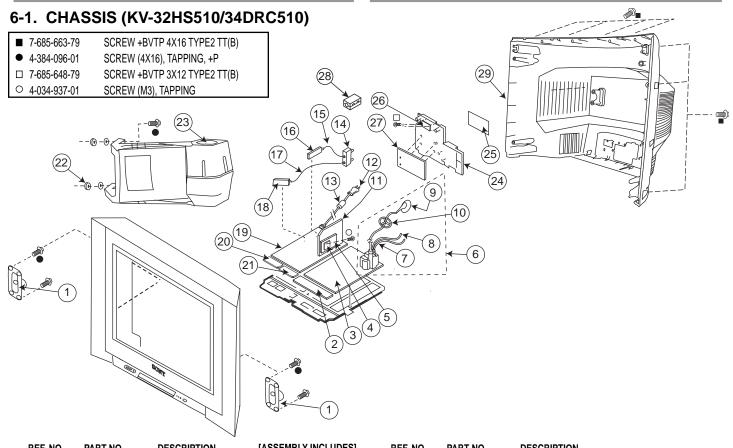
Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS (KV-32HS510/34DRC510)

■	7-685-663-79	SCREW +BVTP 4X16 TYPE2 TT(B)
●	4-384-096-01	SCREW (4X16), TAPPING, +P
□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)
○	4-034-937-01	SCREW (M3), TAPPING

REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
1	1-825-104-11	SPEAKER (24X4.2CM)	
* 2	A-1400-549-A	HA BOARD, MOUNTED	
* 3	A-1300-319-A	D BOARD, COMPLETE	
		(ALL EXCEPT KV-34DRC510 LATIN SOUTH)	
		The high-voltage leads associated with the FBT on this D Board are not included and must be ordered separately (SEE 7-9).	
* 3	A-1300-538-A	D BOARD, COMPLETE	
		(KV-34DRC510 LATIN SOUTH ONLY)	
		The high-voltage leads associated with the FBT on this D Board are not included and must be ordered separately (SEE 7-9).	
* 4	A-1300-690-A	BM1C BOARD, COMPLETE	
* 5	A-1300-325-A	B BOARD, COMPLETE	
⚠ 6	1-453-387-21	FBT ASSY/NX-6020//M3J4	(7-9)
⚠ 7	1-900-805-22	CONNECTOR ASSY, G2 HV	
⚠ 8	1-900-805-19	WIRE ASSY, FOCUS HV	
⚠ 9	1-251-715-22	CAP ASSY, HIGH-VOLTAGE	
10	4-084-918-01	HOLDER, HV CABLE	
* 11	A-1300-320-A	M BOARD, COMPLETE	
⚠ 12	1-769-837-11	CORD, POWER (WITH NOISE FILTER)	
		(ALL EXCEPT KV-34DRC510 LATIN SOUTH)	

REF. NO.	PART NO.	DESCRIPTION
⚠ 12	1-769-796-62	CORD, POWER (WITH CONNECTOR)
		(KV-34DRC510 LATIN SOUTH ONLY)
13	1-500-586-11	FILTER, CLAMP (FERRITE CORE)
⚠ 14	1-771-787-13	SWITCH, RF ANTENNA
* 15	1-555-400-00	CABLE, PIN
16	8-598-594-20	TUNER, FSS BTF-FA421
17	1-557-056-51	CABLE, P-P
18	8-598-593-40	TUNER, FSS BTF-WA421
* 19	A-1300-326-A	A BOARD, COMPLETE
		(ALL EXCEPT KV-34DRC510 LATIN SOUTH)
* 19	A-1300-537-A	A BOARD, COMPLETE
		(KV-34DRC510 LATIN SOUTH ONLY)
* 20	A-1300-323-A	HM BOARD, COMPLETE
* 21	A-1400-548-A	HB BOARD, MOUNTED
22	4-374-745-31	CUSHION (A)
23	1-825-105-11	LOUDSPEAKER (10 CM)
24	4-086-882-01	BRACKET, U
25	4-086-884-01	LABEL, TERMINAL
* 26	A-1300-324-A	UD BOARD, COMPLETE
* 27	A-1300-321-A	U BOARD, COMPLETE
28	1-500-082-11	CLAMP, SLEEVE FERRITE
29	4-086-874-02	COVER, REAR

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.
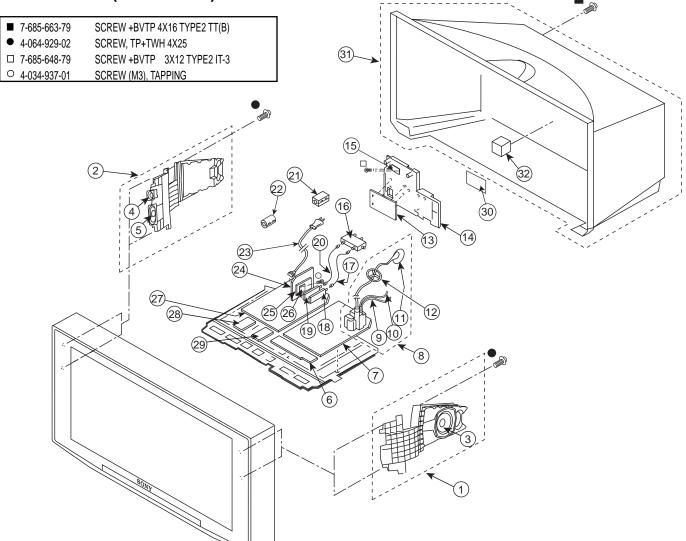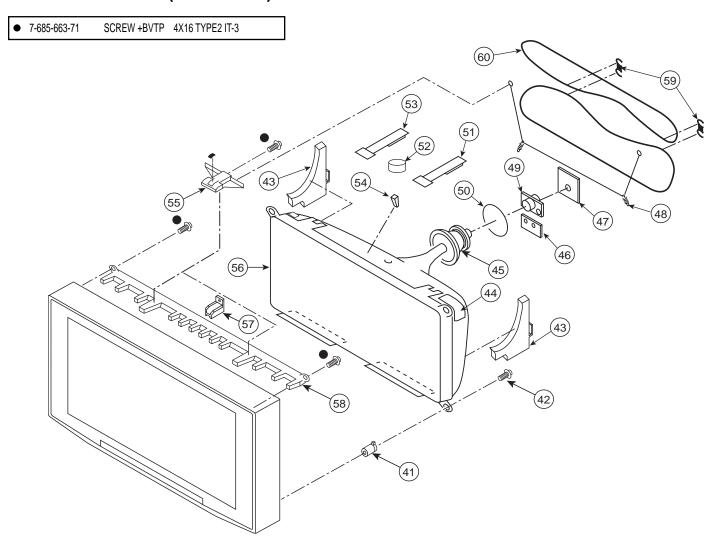
6-2. PICTURE TUBE (KV-32HS510/34DRC510)

▲ 4-046-765-12   SCREW, TAPPING 7+CROWN WASHER

REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
30	X-4041-385-1	BEZNET ASSY	(31-39)
31	4-087-087-01	GUIDE, MS LED	
32	3-704-179-01	EMBLEM (NO.9), SONY	
33	4-086-876-11	DOOR	
34	4-086-878-01	GUIDE, LED	
35	4-086-879-11	BUTTON, POWER	
36	4-086-877-01	COVER, DOOR	
37	4-083-848-12	DAMPER, DOOR	
38	4-083-302-03	BUTTON, MENU	
39	4-083-301-12	BUTTON, MULTI	
40	4-088-878-01	CUSHION, 32 CRT SUPPORTER	
41	4-086-875-02	SUPPORTER, CRT	
⚠ 42	1-451-498-41	COIL, NA ROTATION	
⚠ 43	8-735-047-05	CRT 34RSN	
		(KV-32HS510 ONLY)	
⚠ 43	8-735-076-05	CRT 34RSN(SSV)(FOR ME/JP)	
		(KV-34DRC510 LATIN NORTH ONLY)	

REF. NO.	PART NO.	DESCRIPTION
⚠ 43	8-735-077-05	CRT 34RSN(SSV)(FOR EQUATORIAL)
		(KV-34DRC510 LATIN SOUTH ONLY)
⚠ 44	8-451-512-12	DY Y34RSC-M
* 45	A-1400-561-A	W BOARD, MOUNTED
⚠ 46	8-453-009-21	NECK ASSEMBLY NA325-M2
* 47	A-1400-562-A	CX BOARD, MOUNTED
48	4-053-005-01	SPACER, DY
49	4-065-895-11	HOLDER, DGC
50	1-452-885-11	MAGNET, LANDING
51	4-083-414-01	PIECE A(110), CONV CORRECT
52	4-081-170-01	PLATE, TLH CORRECTION
53	4-082-641-01	SPRING, 45MM
54	4-082-640-01	HOOK, GROUND WIRE
⚠ 55	1-416-827-21	COIL, DEGAUSSING
		(ALL EXCEPT KV-34DRC510 LATIN SOUTH)
⚠ 55	1-419-163-21	COIL, DEGAUSSING
		(KV-34DRC510 LATIN SOUTH ONLY)
56	4-084-728-01	CUSHION, DGC

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.
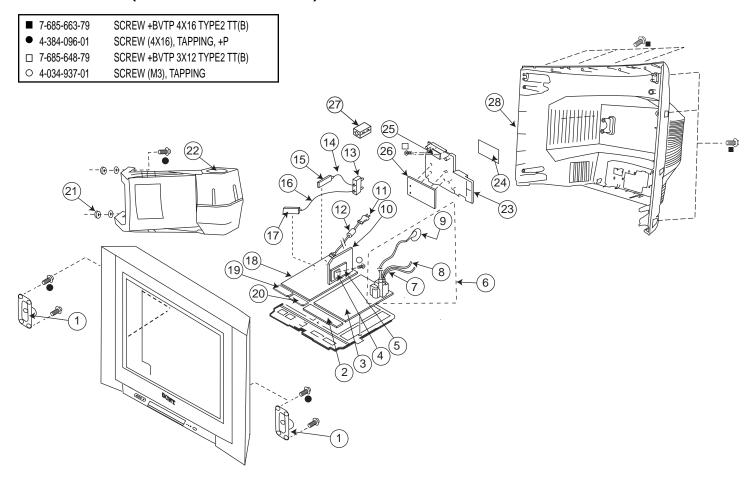
6-3. CHASSIS (KV-34HS510)

■	7-685-663-79	SCREW +BVTP 4X16 TYPE2 TT(B)
●	4-064-929-02	SCREW, TP+TWH 4X25
□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3
○	4-034-937-01	SCREW (M3), TAPPING

	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	1	1-825-171-21	BOX, SPEAKER (RIGHT)	(3-5)
	2	1-825-171-11	BOX, SPEAKER (LEFT)	(3-5)
	3	1-825-405-11	LOUDSPEAKER (12CM)	
	4	1-825-406-11	LOUDSPEAKER (5.2CM)	
	5	1-825-404-11	LOUDSPEAKER (5X9CM)	
*	6	A-1400-709-A	HC BOARD, MOUNTED	
*	7	A-1300-319-A	D BOARD, COMPLETE	
			The high-voltage leads associated with the FBT on	
			this D Board are not included and must be ordered	
			separately (SEE 9-11).	
⚠	8	1-453-387-21	FBT ASSY/NX-6020//M3J4	(9-11)
⚠	9	1-900-805-22	CONNECTOR ASSY, G2 HV	
⚠	10	1-900-805-19	WIRE ASSY, FOCUS HV	
⚠	11	1-251-715-22	CAP ASSY, HIGH-VOLTAGE	
	12	4-084-918-01	HOLDER, HV CABLE	
*	13	A-1300-321-A	U BOARD, COMPLETE	
	14	4-086-882-01	BRACKET, U	
*	15	A-1300-324-A	UD BOARD, COMPLETE	

	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
⚠	16	1-771-787-13	SWITCH, RF ANTENNA	
	17	1-557-056-51	CABLE, P-P	
	18	8-598-593-40	TUNER, FSS BTF-WA421	
	19	8-598-594-20	TUNER, FSS BTF-FA421	
*	20	1-555-400-00	CABLE, PIN	
	21	1-500-082-11	CLAMP, SLEEVE FERRITE	
	22	1-500-586-11	FILTER, CLAMP (FERRITE CORE)	
⚠	23	1-769-837-11	CORD, POWER(WITH NOISE FILTER)	
*	24	A-1300-320-A	M BOARD, COMPLETE	
*	25	A-1300-325-A	B BOARD, COMPLETE	
*	26	A-1300-690-A	BM1C BOARD, COMPLETE	
*	27	A-1300-326-A	A BOARD, COMPLETE	
*	28	A-1400-548-A	HB BOARD, MOUNTED	
*	29	A-1300-323-A	HM BOARD, COMPLETE	
	30	4-086-884-01	LABEL, TERMINAL	
	31	X-4039-221-2	COVER ASSY, REAR	(32)
	32	4-079-345-02	CUSHION,REAR COVER (18X18)	
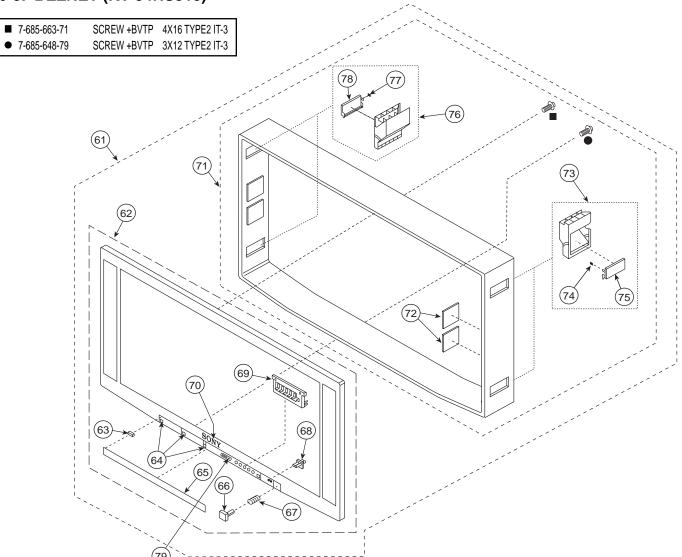
6-4. PICTURE TUBE (KV-34HS510)

● 7-685-663-71   SCREW +BVTP   4X16 TYPE2 IT-3

REF. NO.	PART NO.	DESCRIPTION
41	4-086-434-02	CRT SPACER
42	4-080-811-01	SCREW TAPPING 7+CROWN WASHER(L40)
43	4-064-944-01	SUPPORTER, CRT
44	4-066-625-01	TAPE (M), CRT
⚠ 45	8-451-498-22	DY Y36RVC-M2
* 46	A-1400-561-A	W BOARD, MOUNTED
* 47	A-1400-562-A	CX BOARD, MOUNTED
48	4-065-852-01	SPRING, EXTENSION
⚠ 49	8-453-009-21	NECK ASSEMBLY NA325-M2
⚠ 50	1-451-498-31	COIL, NA ROTATION

REF. NO.	PART NO.	DESCRIPTION
51	4-051-734-21	PIECE B(120), CONV. CORRECT
52	1-452-032-00	MAGNET,DISC
53	4-083-414-01	PIECE A(110), CONV CORRECT
54	4-053-005-01	SPACER, DY
55	X-4038-670-2	HOLDER, DGC ASSY
⚠ 56	8-735-060-05	CRT 36RV2
57	X-4038-679-3	SPACER (36) ASSY
58	4-080-281-04	BEAM
59	4-066-488-03	HOLDER (M), DGC
⚠ 60	1-416-837-11	COIL, DEGAUSSING

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

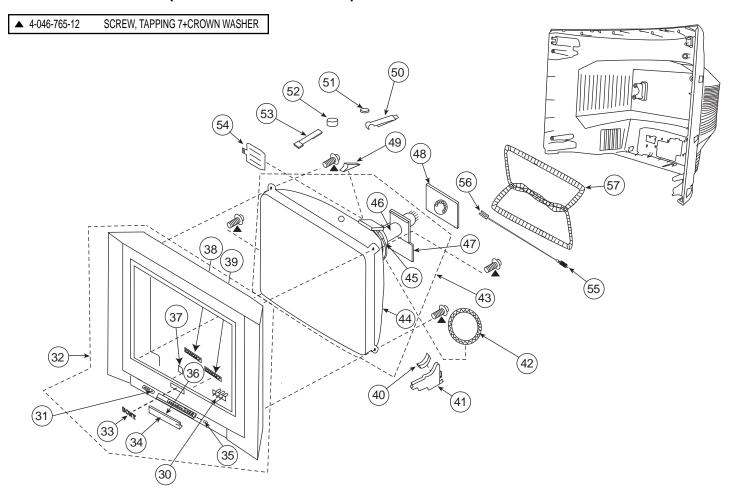## 6-5. BEZNET (KV-34HS510)

■	7-685-663-71	SCREW +BVTP	4X16 TYPE2 IT-3
●	7-685-648-79	SCREW +BVTP	3X12 TYPE2 IT-3

REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
61	X-4041-386-1	BEZNET ASSY	(62-77)	71	X-4041-471-1	CABINET ASSY	(72-78)
62	X-4041-472-1	BEZEL ASSY	(63-70)	72	4-081-324-01	DAMPER (DT)	
63	4-076-673-03	DAMPER, DOOR		73	X-4038-600-1	HANDLE ASSY, RIGHT	(74-75)
64	4-072-630-01	CUSHION, DOOR		74	4-081-009-01	TAPE (D)	
65	4-089-125-11	DOOR		75	4-064-943-11	COVER, HANDLE	
66	4-080-364-41	BUTTON, POWER		76	X-4038-601-1	HANDLE ASSY, LEFT	(77-78)
67	4-042-593-01	SPRING, COMPRESSION		77	4-081-009-01	TAPE (D)	
68	4-080-361-11	GUIDE, LED		78	4-064-943-11	COVER, HANDLE	
69	4-080-362-12	BUTTON, MULTI		79	4-087-087-11	GUIDE, MS LED	
70	3-704-179-01	EMBLEM (NO.9), SONY					

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-6. CHASSIS (KV-36HS510/38DRC510)

- ■ 7-685-663-79   SCREW +BVTP 4X16 TYPE2 TT(B)
- ● 4-384-096-01   SCREW (4X16), TAPPING, +P
- □ 7-685-648-79   SCREW +BVTP 3X12 TYPE2 TT(B)
- ○ 4-034-937-01   SCREW (M3), TAPPING

	REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
	1	1-825-104-11	SPEAKER (24X4.2CM)
*	2	A-1400-549-A	HA BOARD, MOUNTED
*	3	A-1300-319-A	D BOARD, COMPLETE (ALL EXCEPT KV-38DRC510 LATIN SOUTH) The high-voltage leads associated with the FBT on this D Board are not included and must be ordered separately (SEE 7-9).
*	3	A-1300-538-A	D BOARD, COMPLETE (KV-38DRC510 LATIN SOUTH ONLY) The high-voltage leads associated with the FBT on this D Board are not included and must be ordered separately (SEE 7-9).
*	4	A-1300-690-A	BM1C BOARD, COMPLETE
*	5	A-1300-325-A	B BOARD, COMPLETE
⚠	6	1-453-387-21	FBT ASSY/NX-6020//M3J4 (7-9)
⚠	7	1-900-805-22	CONNECTOR ASSY, G2 HV
⚠	8	1-900-805-19	WIRE ASSY, FOCUS HV
⚠	9	1-251-715-22	CAP ASSY, HIGH-VOLTAGE
*	10	A-1300-320-A	M BOARD, COMPLETE
⚠	11	1-769-837-11	CORD, POWER (WITH NOISE FILTER) (ALL EXCEPT KV-38DRC510 LATIN SOUTH)

	REF. NO.	PART NO.	DESCRIPTION
⚠	11	1-769-796-62	CORD, POWER (WITH CONNECTOR) (KV-38DRC510 LATIN SOUTH ONLY)
	12	1-500-586-11	FILTER, CLAMP (FERRITE CORE)
⚠	13	1-771-787-13	SWITCH, RF ANTENNA
*	14	1-555-400-00	CABLE, PIN
	15	8-598-594-20	TUNER, FSS BTF-FA421
	16	1-557-056-51	CABLE, P-P
	17	8-598-593-40	TUNER, FSS BTF-WA421
*	18	A-1300-326-A	A BOARD, COMPLETE (ALL EXCEPT KV-38DRC510 LATIN SOUTH)
*	18	A-1300-537-A	A BOARD, COMPLETE (KV-38DRC510 LATIN SOUTH ONLY)
*	19	A-1300-323-A	HM BOARD, COMPLETE
*	20	A-1400-548-A	HB BOARD, MOUNTED
	21	4-374-745-31	CUSHION (A)
	22	1-825-105-11	LOUDSPEAKER (10 CM)
	23	4-086-882-01	BRACKET, U
	24	4-086-884-01	LABEL, TERMINAL
*	25	A-1300-324-A	UD BOARD, COMPLETE
*	26	A-1300-321-A	U BOARD, COMPLETE
	27	1-500-082-11	CLAMP, SLEEVE FERRITE
	28	4-086-886-02	COVER, REAR

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-7. PICTURE TUBE (KV-36HS510/38DRC510)

▲ 4-046-765-12   SCREW, TAPPING 7+CROWN WASHER

REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
30	4-086-878-01	GUIDE, LED	
31	4-087-087-01	GUIDE, MS LED	
32	X-4041-389-1	BEZNET ASSY	(33-37)
		(ALL EXCEPT KV-38DRC510 LATIN SOUTH)	
32	X-4039-827-1	BEZNET ASSY	(33-37)
		(KV-38DRC510 LATIN SOUTH ONLY)	
33	3-704-179-01	EMBLEM (NO.9), SONY	
34	4-086-876-11	DOOR	
35	4-086-879-11	BUTTON, POWER	
36	4-086-877-01	COVER, DOOR	
37	4-083-848-12	DAMPER, DOOR	
38	4-083-302-03	BUTTON, MENU	
39	4-083-301-12	BUTTON, MULTI	
40	4-088-879-01	CUSHION, 36 CRT SUPPORTER	
41	4-086-875-02	SUPPORTER, CRT	
⚠ 42	1-451-498-31	COIL, NA ROTATION	
⚠ 43	8-735-048-62	ITC 38RSN-C1	(44-46)
		(ALL EXCEPT KV-38DRC510 LATIN SOUTH)	
⚠ 43	8-735-080-63	ITC 38RSN-C1E	(44-46)
		(KV-38DRC510 LATIN SOUTH ONLY)	
⚠ 44	8-735-048-05	CRT38RSN	
		(KV-36HS510 ONLY)	

REF. NO.	PART NO.	DESCRIPTION
⚠ 44	8-735-088-05	CRT 38RSN (DRC)
		(KV-38DRC510 LATIN NORTH ONLY)
⚠ 44	8-735-080-05	CRT 38RSN (FOR EQUATORIAL AREA)
		(KV-38DRC510 LATIN SOUTH ONLY)
⚠ 45	8-451-516-21	DY Y38RSC-V
⚠ 46	8-453-009-21	NECK ASSEMBLY NA325-M2
* 47	A-1400-561-A	W BOARD, MOUNTED
* 48	A-1400-562-A	CX BOARD, MOUNTED
49	2-164-116-01	SPACER, DY
50	4-065-895-11	HOLDER, DGC
51	1-452-032-11	MAGNET, DISC
52	1-452-014-11	CIRCULAR DISC MAGNET B
53	4-085-128-01	PIECE A (100), CONV. CORRECT
54	2-163-920-01	PLATE, TLH CORRECTION
55	4-082-641-01	SPRING, 45MM
56	4-082-640-01	HOOK, GROUND WIRE
⚠ 57	1-456-072-21	COIL, DEGAUSSING
		(ALL EXCEPT KV-38DRC510 LATIN SOUTH)
⚠ 57	1-419-193-11	COIL, DEGAUSSING
		(KV-38DRC510 LATIN SOUTH ONLY)

SECTION 7: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: ☒ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

RESISTORS
• All resistors are in ohms
• F : nonflammable
• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	VALUES		
D					
*	A-1300-319-A	**D BOARD, COMPLETE**			
	(All except KV-34DRC510(S)/38DRC510(S))				
	A-1300-538-A	**D BOARD, COMPLETE**			
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
	3-710-578-01	COVER, VOLUME, 6 MOLD			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			

The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D Board:

⚠	1-251-715-22	CAP ASSY, HIGH-VOLTAGE			
⚠	1-900-805-19	WIRE ASSY, FOCUS HV			
⚠	1-900-805-22	CONNECTOR ASSY, G2 HV			

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5001	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5002	1-106-383-00	MYLAR	0.047µF	10%	200V
C5003	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C5004	1-106-383-00	MYLAR	0.047µF	10%	200V
C5005	1-126-235-11	ELECT	100µF	20%	16V
C5006	1-126-964-11	ELECT	10µF	20%	50V
C5007	1-126-941-11	ELECT	470µF	20%	25V
C5009	1-126-941-11	ELECT	470µF	20%	25V
C5010	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5011	1-107-641-11	ELECT	220µF	20%	160V
C5012	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C5013	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5014	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5016	1-136-171-00	FILM	0.33µF	5%	50V
C5017	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V
C5018	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5019	1-126-968-11	ELECT	100µF	20%	50V
C5020	1-104-665-11	ELECT	100µF	20%	25V
C5022	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C5024	1-102-038-00	CERAMIC	0.001µF		500V
C5030	1-137-365-11	MYLAR	0.0015µF	5%	50V
C5031	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C5032	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C5033	1-130-495-00	MYLAR	0.1µF	5%	50V
C5035	1-104-665-11	ELECT	100µF	20%	25V
C5036	1-126-941-11	ELECT	470µF	20%	25V
C5040	1-126-935-11	ELECT	470µF	20%	16V
C5041	1-126-935-11	ELECT	470µF	20%	16V
C5044	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5045	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5046	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C5047	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C5048	1-162-953-11	CERAMIC CHIP	100pF	5%	50V
C5049	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5050	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5051	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5052	1-126-947-11	ELECT	47µF	20%	35V
C5053	1-106-220-00	MYLAR	0.1µF	10%	100V
C5054	1-104-666-11	ELECT	220µF	20%	25V
C5056	1-162-318-11	CERAMIC	0.001µF	10%	500V
C5057	1-162-134-11	CERAMIC	470pF	10%	2KV
C5058	1-162-116-00	CERAMIC	680pF	10%	2KV
C5059	1-162-116-00	CERAMIC	680pF	10%	2KV
C5060	1-137-417-11	MYLAR	0.015µF	10%	100V
C5061	1-117-839-11	FILM	9100pF	3%	1.5KV
C5064	1-117-668-31	FILM	0.56µF	5%	250V
C5065	1-107-506-11	FILM	0.68µF	3%	400V
C5066	1-109-921-11	CERAMIC	0.0015µF	10%	500V
C5070	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5071	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5074	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C6502	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5075	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6503	1-131-940-11	ELECT	1200µF	20%	250V
C5076	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6507	1-130-495-00	MYLAR	0.1µF	5%	50V
C5077	1-164-360-11	CERAMIC CHIP	0.1µF		16V	C6508	1-126-947-11	ELECT	47µF	20%	35V
C5078	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V	C6510	1-130-495-00	MYLAR	0.1µF	5%	50V
C5079	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V	C6511	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5082	1-117-839-11	FILM	9100pF	3%	1.5KV	C6513	1-126-940-11	ELECT	330µF	20%	25V
C5084	1-126-941-11	ELECT	470µF	20%	25V	C6514	1-126-767-11	ELECT	1000µF	20%	16V
C5086	1-126-941-11	ELECT	470µF	20%	25V	C6515	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5502	1-126-941-11	ELECT	470µF	20%	25V	C6516	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5504	1-126-947-11	ELECT	47µF	20%	35V	C6517	1-126-963-11	ELECT	4.7µF	20%	50V
C5505	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6518	1-136-479-11	FILM	0.001µF	5%	100V
C5506	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	C6519	1-126-964-11	ELECT	10µF	20%	50V
C5511	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6525	1-125-969-91	CERAMIC	680pF	10%	1KV
C5512	1-162-974-11	CERAMIC CHIP	0.01µF		50V	C6526	1-125-969-91	CERAMIC	680pF	10%	1KV
C5513	1-162-974-11	CERAMIC CHIP	0.01µF		50V	C6532	1-137-741-22	FILM	39000pF	3%	800V
C5514	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6546	1-126-974-11	ELECT	3300µF	20%	50V
C5515	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6549	1-126-969-11	ELECT	220µF	20%	50V
C5516	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6550	1-126-968-11	ELECT	100µF	20%	50V
C5517	1-129-716-00	FILM	0.015µF	5%	400V	C6551	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5518	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6552	1-126-937-11	ELECT	4700µF	20%	16V
C5519	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V	C6554	1-126-768-11	ELECT	2200µF	20%	16V
C5520	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6555	1-104-665-11	ELECT	100µF	20%	25V
C5521	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6556	1-123-024-21	ELECT	33µF		160V
C5522	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V	C6557	1-107-654-11	ELECT	33µF	20%	250V
C5523	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6558	1-126-967-11	ELECT	47µF	20%	50V
C5524	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C6559	1-126-942-61	ELECT	1000µF	20%	25V
C5526	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V	C6584	1-165-528-11	MYLAR	0.1µF	10	275V
C5527	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6590	1-131-940-11	ELECT	1200µF	20%	250V
C5528	1-129-709-91	FILM	0.0039µF	5%	630V	⚠ C6592	1-119-898-51	CERAMIC	470pF	10%	250V
C5529	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C6593	1-126-768-11	ELECT	2200µF	20%	16V
C5530	1-136-167-00	FILM	0.15µF	5%	50V	C6595	1-104-666-11	ELECT	220µF	20%	25V
C5531	1-130-495-00	MYLAR	0.1µF	5%	50V	C6596	1-126-960-11	ELECT	1µF	20%	50V
C5533	1-126-961-11	ELECT	2.2µF	20%	50V	C6597	1-126-943-11	ELECT	2200µF	20%	25V
C5534	1-126-947-11	ELECT	47µF	20%	35V	C8001	1-126-964-11	ELECT	10µF	20%	50V
C5535	1-126-947-11	ELECT	47µF	20%	35V	C8002	1-126-964-11	ELECT	10µF	20%	50V
C5540	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C8003	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5548	1-137-194-81	FILM	0.47µF	5%	50V	C8005	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5550	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C8006	1-126-960-11	ELECT	1µF	20%	50V
C5551	1-126-947-11	ELECT	47µF	20%	35V	C8007	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C5552	1-126-947-11	ELECT	47µF	20%	35V	C8012	1-126-947-11	ELECT	47µF	20%	35V
C5598	1-126-947-11	ELECT	47µF	20%	35V	C8015	1-126-947-11	ELECT	47µF	20%	35V
C5609	1-104-665-11	ELECT	100µF	20%	25V	C8016	1-130-495-00	MYLAR	0.1µF	5%	50V
C5623	1-104-665-11	ELECT	100µF	20%	25V	C8017	1-126-964-11	ELECT	10µF	20%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C8018	1-126-964-11	ELECT	10µF	20%	50V
C8020	1-130-495-00	MYLAR	0.1µF	5%	50V
C8021	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C8024	1-126-967-11	ELECT	47µF	20%	50V
C8025	1-126-947-11	ELECT	47µF	20%	35V
C8027	1-130-495-00	MYLAR	0.1µF	5%	50V
C8028	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C8030	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C8031	1-128-551-11	ELECT	22µF	20%	63V
C8032	1-136-813-11	FILM	680pF	5%	100V
C8033	1-126-964-11	ELECT	10µF	20%	50V
C8035	1-162-115-00	CERAMIC	330pF	10%	1KV
C8036	1-162-115-00	CERAMIC	330pF	10%	1KV
C8037	1-165-953-11	FILM	47000pF	3%	800V
C8040	1-126-969-11	ELECT	220µF	20%	50V
C8041	1-130-495-00	MYLAR	0.1µF	5%	50V
C8042	1-136-189-00	MYLAR	0.1µF	10%	250V
C8045	1-130-471-00	MYLAR	0.001µF	5%	50V
C8046	1-107-444-11	CERAMIC	100pF	5%	2KV
C8047	1-162-130-11	CERAMIC	180pF	10%	2KV
C8048	1-130-495-00	MYLAR	0.1µF	5%	50V
C8050	1-129-718-00	FILM	0.022µF	5%	630V
C8051	1-126-964-11	ELECT	10µF	20%	50V
C8052	1-104-665-11	ELECT	100µF	20%	25V
C8053	1-162-117-00	CERAMIC	100pF	10%	500V
C8054	1-102-244-00	CERAMIC	220pF	10%	500V
C8055	1-136-535-91	FILM	0.0018µF	5%	630V
C8056	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8057	1-162-318-11	CERAMIC	0.001µF	10%	500V
C8058	1-137-194-81	FILM	0.47µF	5%	50V
C8059	1-126-947-11	ELECT	47µF	20%	35V
C8060	1-107-635-11	ELECT	4.7µF	20%	160V
C8063	1-165-607-91	FILM	10000pF	3%	800V
C8065	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8073	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C8074	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8075	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8076	1-126-963-11	ELECT	4.7µF	20%	50V
C8077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8079	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8139	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V

	REF. NO.	PART NO.	DESCRIPTION	VALUES
			CONNECTOR	
*	CN5001	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
*	CN5002	1-580-798-11	CONNECTOR PIN (DY) 6P	
*	CN5003	1-564-507-11	PLUG, CONNECTOR 4P	
*	CN5009	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
*	CN5011	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
*	CN5509	1-564-512-11	PLUG, CONNECTOR 9P	
*	CN6502	1-766-240-11	PIN, CONNECTOR (PC BOARD) 2P	
*	CN6503	1-564-508-11	PLUG, CONNECTOR 5P	
*	CN6504	1-564-515-11	PLUG, CONNECTOR 12P	
*	CN6506	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
			DIODE	
	D5001	8-719-083-60	DIODE	UDZSTE-174.7B
	D5002	8-719-908-03	DIODE	GP08D
	D5003	8-719-028-45	DIODE	D2L20U
	D5004	8-719-083-82	DIODE	UDZS-TE17-12B
	D5005	8-719-404-50	DIODE	MA111-TX
	D5006	8-719-404-50	DIODE	MA111-TX
	D5007	8-719-404-50	DIODE	MA111-TX
	D5008	8-719-404-50	DIODE	MA111-TX
	D5010	8-719-404-50	DIODE	MA111-TX
	D5011	8-719-109-63	DIODE	RD3.0ESB2
	D5014	8-719-075-66	DIODE	D5LC20U-4012
	D5016	8-719-028-45	DIODE	D2L20U
	D5017	8-719-028-45	DIODE	D2L20U
	D5018	8-719-083-83	DIODE	UDZS-TE17-15B
	D5019	8-719-404-50	DIODE	MA111-TX
	D5023	8-719-061-21	DIODE	FMQ-G5FMS
	D5027	8-719-404-50	DIODE	MA111-TX
	D5028	8-719-404-50	DIODE	MA111-TX
	D5032	8-719-404-50	DIODE	MA111-TX
	D5035	8-719-302-43	DIODE	EL1Z
	D5036	8-719-302-43	DIODE	EL1Z
	D5501	8-719-404-50	DIODE	MA111-TX
	D5502	8-719-404-50	DIODE	MA111-TX
	D5504	8-719-404-50	DIODE	MA111-TX
	D5506	8-719-404-50	DIODE	MA111-TX
	D5508	8-719-404-50	DIODE	MA111-TX
	D5511	8-719-062-51	DIODE	1PS226-115
	D5512	8-719-062-51	DIODE	1PS226-115
	D5513	8-719-404-50	DIODE	MA111-TX
	D5514	8-719-060-90	DIODE	S2L60F

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D5515	8-719-404-50	DIODE	MA111-TX	D8034	8-719-921-63	DIODE	MTZJ-7.5B
D6502	8-719-979-64	DIODE	µF4005PKG23	D8140	8-719-404-50	DIODE	MA111-TX
D6504	8-719-075-66	DIODE	D5LC20U-4012				
D6505	8-719-404-50	DIODE	MA111-TX				
D6508	8-719-982-27	DIODE	MTZJ-33C		**FERRITE BEAD**		
D6509	8-719-068-00	DIODE	ERC04-06SE	FB5001	1-410-397-21	FERRITE	1.1µH
	(All except KV-34DRC510(S)/38DRC510(S))			FB5002	1-543-298-11	FERRITE	0µH
D6510	8-719-068-00	DIODE	ERC04-06SE	FB5003	1-410-397-21	FERRITE	1.1µH
	(All except KV-34DRC510(S)/38DRC510(S))			FB6501	1-410-397-21	FERRITE	1.1µH
D6513	8-719-510-12	DIODE	D10SC4M	FB6508	1-410-396-41	FERRITE	0.45µH
D6514	8-719-060-89	DIODE	D4SBS6-F	FB6509	1-410-396-41	FERRITE	0.45µH
D6516	8-719-075-66	DIODE	D5LC20U-4012	FB6519	1-410-397-21	FERRITE	1.1µH
D6518	8-719-052-90	DIODE	D1NL40-TA2	FB6520	1-412-911-11	FERRITE	0µH
D6519	8-719-063-74	DIODE	D1NL20U-TR2	FB6521	1-412-911-11	FERRITE	0µH
D6520	8-719-063-74	DIODE	D1NL20U-TR2	FB8001	1-412-911-11	FERRITE	0µH
				FB8002	1-412-911-11	FERRITE	0µH
D6523	8-719-060-89	DIODE	D4SBS6-F				
D6524	8-719-062-40	DIODE	D4SBL20µF3				
D6530	8-719-510-53	DIODE	D4SB60L		**IC**		
D6532	8-719-948-45	DIODE	ERA22-08				
D6533	8-719-404-50	DIODE	MA111-TX	IC5001	8-759-701-01	IC	NJM2904M
				IC5002	8-759-700-07	IC	NJM2903M
D6534	8-719-404-50	DIODE	MA111-TX	IC5004	8-759-696-71	IC	STV9379A
D6537	8-719-404-50	DIODE	MA111-TX	IC5005	8-759-803-42	IC	LA6500-FA
D6538	8-719-109-85	DIODE	RD5.1ESB2	IC5006	8-749-013-76	IC	PQ6RD83B
D8001	8-719-404-50	DIODE	MA111-TX				
D8003	8-719-404-50	DIODE	MA111-TX	IC5007	8-759-981-61	IC	LM2901M
				IC5502	8-759-981-61	IC	LM2901M
D8005	8-719-404-50	DIODE	MA111-TX	IC5504	8-759-803-42	IC	LA6500-FA
D8006	8-719-063-74	DIODE	D1NL20U-TR2	IC5506	8-759-803-42	IC	LA6500-FA
D8007	8-719-404-50	DIODE	MA111-TX	IC5511	8-759-701-01	IC	NJM2904M
D8009	8-719-083-83	DIODE	UDZS-TE17-15B				
D8010	8-719-979-64	DIODE	µF4005PKG23	IC5512	8-759-929-65	IC	LM7912CT
				IC5515	8-759-701-01	IC	NJM2904M
D8011	8-719-110-41	DIODE	RD15ESB2	IC6500	8-759-347-19	IC	KIA7812PI
D8012	8-719-110-41	DIODE	RD15ESB2	IC6501	8-759-670-30	IC	MCZ3001D
D8013	8-719-083-83	DIODE	UDZS-TE17-15B	IC6503	8-749-012-13	IC	DM-58
D8014	8-719-083-83	DIODE	UDZS-TE17-15B				
D8015	8-719-404-50	DIODE	MA111-TX	IC6505	8-749-921-86	IC	SE-140N
				IC8001	8-759-700-07	IC	NJM2903M
D8016	8-719-948-45	DIODE	ERA22-08	IC8002	8-759-670-30	IC	MCZ3001D
D8017	8-719-948-45	DIODE	ERA22-08	IC8004	8-759-701-01	IC	NJM2904M
D8018	8-719-948-45	DIODE	ERA22-08	IC8005	8-759-198-31	IC	UPC1093J-1-T
D8022	8-719-063-74	DIODE	D1NL20U-TR2				
D8023	8-719-109-85	DIODE	RD5.1ESB2	IC8006	8-759-700-07	IC	NJM2903M
				IC8104	8-759-586-17	IC	TL1431CZ-AP
D8024	8-719-109-93	DIODE	RD6.2ESB2				
D8026	8-719-404-50	DIODE	MA111-TX				
D8028	8-719-069-54	DIODE	UDZSTE-175.1B				
D8030	8-719-083-66	DIODE	UDZSTE-1718B				

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	VALUES
	CHIP CONDUCTOR		
JR5000	1-216-864-11	SHORT CHIP	
JR5001	1-216-864-11	SHORT CHIP	
JR5002	1-216-864-11	SHORT CHIP	
JR5003	1-216-864-11	SHORT CHIP	
JR5004	1-216-864-11	SHORT CHIP	
JR5005	1-216-864-11	SHORT CHIP	
JR5006	1-216-864-11	SHORT CHIP	
JR5007	1-216-864-11	SHORT CHIP	
JR5008	1-216-864-11	SHORT CHIP	
JR5009	1-216-864-11	SHORT CHIP	
JR5010	1-216-864-11	SHORT CHIP	
JR5011	1-216-864-11	SHORT CHIP	
JR5012	1-216-864-11	SHORT CHIP	
JR5013	1-216-864-11	SHORT CHIP	
JR5014	1-216-864-11	SHORT CHIP	
JR5015	1-216-864-11	SHORT CHIP	
JR5501	1-216-864-11	SHORT CHIP	
JR5504	1-216-864-11	SHORT CHIP	
JR5505	1-216-864-11	SHORT CHIP	
JR8000	1-216-864-11	SHORT CHIP	
JR8001	1-216-864-11	SHORT CHIP	
JR8002	1-216-864-11	SHORT CHIP	
JR8003	1-216-864-11	SHORT CHIP	
JR8005	1-216-864-11	SHORT CHIP	
JR8006	1-216-864-11	SHORT CHIP	
JR8007	1-216-864-11	SHORT CHIP	
	COIL		
L5001	1-406-665-11	INDUCTOR	100µH
L5003	1-406-892-21	INDUCTOR	4MH
L5005	1-424-874-11	COIL, HORIZONTAL LINEARITY	
L5504	1-406-989-21	INDUCTOR	10MH
L5505	1-406-989-21	INDUCTOR	10MH
L6501	1-412-525-31	INDUCTOR	10µH
L6502	1-412-525-31	INDUCTOR	10µH
L6503	1-412-525-31	INDUCTOR	10µH
L6505	1-406-665-11	INDUCTOR	100µH
L6506	1-412-525-31	INDUCTOR	10µH
L6507	1-412-525-31	INDUCTOR	10µH
L6510	1-412-523-41	INDUCTOR	6.8µH
L6511	1-412-523-41	INDUCTOR	6.8µH
L6514	1-412-525-31	INDUCTOR	10µH
L6517	1-412-521-31	INDUCTOR	4.7µH

REF. NO.	PART NO.	DESCRIPTION	VALUES
L6518	1-412-521-31	INDUCTOR	4.7µH
L8002	1-428-950-11	INDUCTOR	125µH
L8005	1-406-674-11	INDUCTOR	3.3MH
	PHOTO COUPLER		
PH6501	8-749-016-81	PHOTO COUPLER	PC123Y22
⚠ PH6502	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8001	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8003	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8004	8-749-016-81	PHOTO COUPLER	PC123Y22
	TRANSISTOR		
Q5001	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5002	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5003	8-729-027-97	TRANSISTOR	IRFI9630G-LF
Q5004	8-729-019-57	TRANSISTOR	2SA1208S-TP
Q5005	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5006	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5007	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5010	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5011	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5012	8-729-119-80	TRANSISTOR	2SC2688-LK
Q5013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5014	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5018	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5020	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5021	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5023	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5024	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5025	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5026	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5027	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5028	8-729-038-83	TRANSISTOR	2SK2251-01-F19
Q5030	6-550-168-01	TRANSISTOR	2SC5682-RB
Q5031	8-729-048-49	TRANSISTOR	2SK3262-01MR-F119
Q5035	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5036	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5501	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q5502	8-729-422-27	TRANSISTOR	2SD601A-Q			R5007	1-216-846-11	METAL CHIP	120K	5%	1/10W
Q5503	8-729-422-27	TRANSISTOR	2SD601A-Q			R5008	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q5504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5009	1-216-846-11	METAL CHIP	120K	5%	1/10W
Q5505	8-729-422-27	TRANSISTOR	2SD601A-Q			R5010	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q5506	8-729-422-27	TRANSISTOR	2SD601A-Q			R5011	1-216-846-11	METAL CHIP	120K	5%	1/10W
Q5507	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122			R5012	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
Q5510	8-729-422-27	TRANSISTOR	2SD601A-Q			R5013	1-216-393-00	METAL OXIDE	2.2	5%	3W
Q5512	8-729-422-27	TRANSISTOR	2SD601A-Q			R5014	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q5513	8-729-422-27	TRANSISTOR	2SD601A-Q			R5015	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q5568	8-729-422-27	TRANSISTOR	2SD601A-Q			R5016	1-218-742-11	METAL CHIP	120K	0.50%	1/10W
Q5569	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5017	1-218-742-11	METAL CHIP	120K	0.50%	1/10W
Q6506	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31			R5018	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q6507	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31			R5019	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q6522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5020	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
Q6527	8-729-422-27	TRANSISTOR	2SD601A-Q			R5023	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q6530	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5024	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q6532	8-729-422-27	TRANSISTOR	2SD601A-Q			R5025	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
Q8003	8-729-422-27	TRANSISTOR	2SD601A-Q			R5026	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q8004	8-729-422-27	TRANSISTOR	2SD601A-Q			R5027	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q8007	8-729-422-27	TRANSISTOR	2SD601A-Q			R5028	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q8008	8-729-422-27	TRANSISTOR	2SD601A-Q			R5029	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
Q8011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5030	1-216-864-11	SHORT CHIP			
Q8013	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31			R5031	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
Q8014	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31			R5033	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q8015	8-729-119-80	TRANSISTOR	2SC2688-LK			R5036	1-216-839-11	METAL CHIP	33K	5%	1/10W
Q8016	8-729-045-65	TRANSISTOR	2SA1776TV2Q			R5037	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q8018	8-729-043-95	TRANSISTOR	2SC3840(3)			R5038	1-216-834-11	METAL CHIP	12K	5%	1/10W
Q8019	8-729-422-27	TRANSISTOR	2SD601A-Q			R5040	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
Q8020	8-729-422-27	TRANSISTOR	2SD601A-Q			R5041	1-249-383-11	CARBON	1.5	5%	1/4W
Q8021	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5042	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q8022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5043	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
Q8023	8-729-422-27	TRANSISTOR	2SD601A-Q			R5044	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q8028	8-729-422-27	TRANSISTOR	2SD601A-Q			R5045	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q8034	8-729-422-27	TRANSISTOR	2SD601A-Q			R5046	1-214-798-21	METAL	1.8	1%	1/2W
Q8035	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R5047	1-249-421-11	CARBON	2.2K	5%	1/4W
						R5048	1-216-841-11	METAL CHIP	47K	5%	1/10W
		RESISTOR				R5049	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R5050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5001	1-216-797-11	METAL CHIP	10	5%	1/10W	R5051	1-249-414-11	CARBON	560	5%	1/4W
R5002	1-216-813-11	METAL CHIP	220	5%	1/10W	R5052	1-214-796-00	METAL	1.5	1%	1/2W
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R5004	1-216-846-11	METAL CHIP	120K	5%	1/10W	R5053	1-215-890-11	METAL OXIDE	470	5%	2W
R5005	1-216-813-11	METAL CHIP	220	5%	1/10W	R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R5060	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R5061	1-216-833-11	METAL CHIP	10K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5062	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5128	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5063	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R5129	1-216-809-11	METAL CHIP	100	5%	1/10W
R5064	1-218-748-11	METAL CHIP	220K	0.50%	1/10W	R5130	1-216-797-11	METAL CHIP	10	5%	1/10W
R5065	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	R5131	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R5066	1-218-746-11	METAL CHIP	180K	0.50%	1/10W	R5132	1-215-917-11	METAL OXIDE	1K	5%	3W
R5079	1-218-720-11	METAL CHIP	15K	0.50%	1/10W	R5133	1-215-917-11	METAL OXIDE	1K	5%	3W
R5080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5135	1-215-917-11	METAL OXIDE	1K	5%	3W
R5081	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R5136	1-215-917-11	METAL OXIDE	1K	5%	3W
R5082	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5083	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R5138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5084	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5085	1-216-853-11	METAL CHIP	470K	5%	1/10W	R5141	1-215-890-11	METAL OXIDE	470	5%	2W
R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5142	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5087	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5143	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5090	1-216-369-00	METAL OXIDE	1	5%	2W	R5144	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W	R5145	1-215-880-00	METAL OXIDE	10	5%	2W
R5092	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5146	1-249-437-11	CARBON	47K	5%	1/4W
R5093	1-218-717-11	METAL CHIP	11K	0.50%	1/10W	R5147	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R5095	1-249-377-11	CARBON	0.47	5%	1/4W	R5148	1-215-865-11	METAL OXIDE	220	5%	1W
R5096	1-249-377-11	CARBON	0.47	5%	1/4W	R5150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5097	1-249-380-11	CARBON	0.82	5%	1/4W	R5151	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5098	1-249-379-11	CARBON	0.68	5%	1/4W	R5153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5101	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5102	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R5158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5103	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R5160	1-216-809-11	METAL CHIP	100	5%	1/10W
R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5163	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5105	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5164	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5107	1-249-393-11	CARBON	10	5%	1/4W	R5170	1-215-917-11	METAL OXIDE	1K	5%	3W
R5108	1-218-736-11	METAL CHIP	68K	0.50%	1/10W	R5171	1-215-917-11	METAL OXIDE	1K	5%	3W
R5109	1-218-728-11	METAL CHIP	33K	0.50%	1/10W	R5172	1-260-288-11	CARBON	0.47	5%	1/2W
R5110	1-249-401-11	CARBON	47	5%	1/4W	R5173	1-260-288-11	CARBON	0.47	5%	1/2W
R5111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R5176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5112	1-216-813-11	METAL CHIP	220	5%	1/10W	R5501	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R5113	1-260-107-11	CARBON	4.7K	5%	1/2W	R5502	1-216-864-11	SHORT CHIP			
R5115	1-249-417-11	CARBON	1K	5%	1/4W	R5503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5505	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R5506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5118	1-216-797-11	METAL CHIP	10	5%	1/10W	R5507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5120	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W	R5508	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5124	1-216-809-11	METAL CHIP	100	5%	1/10W	R5510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5126	1-216-809-11	METAL CHIP	100	5%	1/10W	R5513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5127	1-215-890-11	METAL OXIDE	470	5%	2W	R5518	1-218-728-11	METAL CHIP	33K	0.50%	1/10W

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NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5519	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5520	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5522	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5523	1-218-744-11	METAL CHIP	150K	0.50%	1/10W
R5524	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5525	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5526	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5529	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5533	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5537	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5538	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5539	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5540	1-214-800-11	METAL	2.2	1%	1/2W
R5541	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5542	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5544	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5545	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5546	1-216-864-11	SHORT CHIP			
R5547	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5548	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5549	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5553	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5554	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5556	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5557	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5558	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5559	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5561	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5565	1-249-377-11	CARBON	0.47	5%	1/4W
R5566	1-249-401-11	CARBON	47	5%	1/4W
R5567	1-216-809-11	METAL CHIP	100	5%	1/10W
R5568	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5569	1-216-821-11	METAL CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5571	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5576	1-249-395-11	CARBON	15	5%	1/4W
R5578	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R5579	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5580	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5581	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5593	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5597	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5603	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5604	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5711	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5712	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R6501	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W
R6503	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6505	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R6507	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6508	1-249-393-11	CARBON	10	5%	1/4W
R6509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6510	1-249-393-11	CARBON	10	5%	1/4W
R6513	1-215-481-00	METAL	330K	1%	1/4W
R6514	1-215-481-00	METAL	330K	1%	1/4W
R6515	1-260-131-11	CARBON	470K	5%	1/2W
⚠ R6516	1-244-207-11	WIREWOUND	3.3	5%	10W
R6518	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R6519	1-216-864-11	SHORT CHIP			
R6521	1-260-328-11	CARBON	1K	5%	1/2W
R6524	1-216-864-11	SHORT CHIP			
R6525	1-216-817-11	METAL CHIP	470	5%	1/10W
R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6527	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6528	1-216-809-11	METAL CHIP	100	5%	1/10W
R6529	1-249-393-11	CARBON	10	5%	1/4W
R6530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6531	1-249-393-11	CARBON	10	5%	1/4W
R6532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6536	1-249-417-11	CARBON	1K	5%	1/4W
R6537	1-216-833-11	METAL CHIP	10K	5%	1/10W

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NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6538	1-216-833-11	METAL CHIP	10K	5%	1/10W	⚠ R8038	1-215-445-00	METAL	10K	1%	1/4W
R6539	1-215-900-11	METAL OXIDE	22K	5%	2W	⚠ R8039	1-215-445-00	METAL	10K	1%	1/4W
R6542	1-216-821-11	METAL CHIP	1K	5%	1/10W	⚠ R8040	1-215-445-00	METAL	10K	1%	1/4W
R6544	1-216-864-11	SHORT CHIP				R8041	1-216-864-11	SHORT CHIP			
R6545	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	⚠ R8043	1-215-447-00	METAL	12K	1%	1/4W
R6547	1-216-864-11	SHORT CHIP				R8046	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R6548	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R8047	1-216-341-11	METAL OXIDE	0.22	5%	1W
R6556	1-243-979-71	METAL OXIDE	0.1	5%	2W	R8049	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R6557	1-243-979-71	METAL OXIDE	0.1	5%	2W	R8050	1-218-656-11	METAL CHIP	33	0.50%	1/10W
⚠ R6590	1-249-415-11	CARBON	680	5%	1/4W	R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6593	1-249-405-11	CARBON	100	5%	1/4W	R8052	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R6595	1-249-377-11	CARBON	0.47	5%	1/4W	R8053	1-215-481-00	METAL	330K	1%	1/4W
R6602	1-216-821-11	METAL CHIP	1K	5%	1/10W	R8054	1-215-481-00	METAL	330K	1%	1/4W
R6605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R8055	1-215-480-00	METAL	300K	1%	1/4W
R6646	1-215-481-00	METAL	330K	1%	1/4W	R8056	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R8001	1-216-809-11	METAL CHIP	100	5%	1/10W	R8057	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8058	1-249-393-11	CARBON	10	5%	1/4W
R8004	1-216-841-11	METAL CHIP	47K	5%	1/10W	R8059	1-216-864-11	SHORT CHIP			
R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8060	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R8006	1-219-512-11	METAL	2.2M	5%	1/2W	R8061	1-249-393-11	CARBON	10	5%	1/4W
R8007	1-219-512-11	METAL	2.2M	5%	1/2W	R8062	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8010	1-216-864-11	SHORT CHIP				R8063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W	R8066	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8012	1-249-419-11	CARBON	1.5K	5%	1/4W	R8069	1-249-425-11	CARBON	4.7K	5%	1/4W
R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8070	1-243-979-71	METAL OXIDE	0.1	5%	2W
R8014	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R8072	1-249-377-11	CARBON	0.47	5%	1/4W
R8015	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R8076	1-240-931-91	METAL	330	5%	0.5W
R8016	1-247-843-11	CARBON	3.3K	5%	1/4W	R8077	1-216-864-11	SHORT CHIP			
R8017	1-218-703-11	METAL CHIP	3K	0.50%	1/10W	R8078	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8079	1-249-431-11	CARBON	15K	5%	1/4W
R8022	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8080	1-249-393-11	CARBON	10	5%	1/4W
R8024	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8082	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W	R8085	1-219-749-91	METAL	10K	5%	1/2W
R8026	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W	R8086	1-219-751-91	METAL	47K	5%	1/2W
R8027	1-218-736-11	METAL CHIP	68K	0.50%	1/10W	R8087	1-216-864-11	SHORT CHIP			
R8028	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R8088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8029	1-218-736-11	METAL CHIP	68K	0.50%	1/10W	R8089	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8030	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R8090	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8031	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R8091	1-215-485-00	METAL	470K	1%	1/4W
R8032	1-216-837-11	METAL CHIP	22K	5%	1/10W	R8093	1-216-847-11	METAL CHIP	150K	5%	1/10W
R8033	1-216-821-11	METAL CHIP	1K	5%	1/10W	R8095	1-215-485-00	METAL	470K	1%	1/4W
⚠ R8035	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W	R8096	1-216-864-11	SHORT CHIP			
⚠ R8036	1-215-415-00	METAL	560	1%	1/4W	R8097	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠ R8037	1-215-445-00	METAL	10K	1%	1/4W	R8098	1-249-441-11	CARBON	100K	5%	1/4W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

A component identified by this ✉ symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8099	1-249-441-11	CARBON	100K	5%	1/4W
R8100	1-249-441-11	CARBON	100K	5%	1/4W
R8101	1-216-847-11	METAL CHIP	150K	5%	1/10W
R8102	1-249-433-11	CARBON	22K	5%	1/4W
R8103	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R8104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8105	1-216-809-11	METAL CHIP	100	5%	1/10W
R8106	1-249-377-11	CARBON	0.47	5%	1/4W
R8108	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8110	1-216-851-11	METAL CHIP	330K	5%	1/10W
R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8112	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8113	1-216-851-11	METAL CHIP	330K	5%	1/10W
R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8115	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8116	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8117	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8118	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8119	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8123	1-216-809-11	METAL CHIP	100	5%	1/10W
R8124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8125	1-216-797-11	METAL CHIP	10	5%	1/10W
R8126	1-216-797-11	METAL CHIP	10	5%	1/10W
R8135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8136	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8137	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8138	1-216-857-11	METAL CHIP	1M	5%	1/10W
R8144	1-216-849-11	METAL CHIP	220K	5%	1/10W
R8145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8146	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8151	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8158	1-216-809-11	METAL CHIP	100	5%	1/10W
R8159	1-216-835-11	METAL CHIP	15K	5%	1/10W
R8160	1-216-853-11	METAL CHIP	470K	5%	1/10W
R8161	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8200	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8206	1-216-817-11	METAL CHIP	470	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
VARIABLE RESISTOR					
⚠✉ RV8002	1-225-627-91	RES, VAR, ADJ, CERMET	2K		
RELAY					
⚠ RY6501	1-755-395-11	RELAY (AC POWER)			
⚠ RY6502	1-755-389-11	RELAY (AC POWER)			
SPARK GAP					
SG8002	1-517-499-21	GAP, SPARK			
TRANSFORMER					
T5001	1-437-669-11	TRANSFORMER, HORIZONTAL OUTPUT			
T5002	1-435-636-11	TRANSFORMER, HORIZONTAL DRIVE			
⚠ T6502	1-437-696-11	TRANSFORMER, CONVERTER			
⚠ T8001	1-453-387-21	FBT ASSY NX-6020//M3J4			
T8003	1-437-664-11	TRANSFORMER, DYNAMIC FOCUS			
THERMISTOR					
TH5002	1-807-796-11	THERMISTOR			

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Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

*	A-1300-320-A	M BOARD, COMPLETE			
CAPACITOR					
C2001	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2002	1-126-933-11	ELECT	100μF	20%	16V
C2003	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2004	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V
C2005	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C2006	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2007	1-126-964-11	ELECT	10μF	20%	50V
C2010	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2011	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2012	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2014	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2064	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2015	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2065	1-126-933-11	ELECT	100µF	20%	16V
C2017	1-126-964-11	ELECT	10µF	20%	50V	C2066	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2019	1-126-964-11	ELECT	10µF	20%	50V	C2067	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2020	1-126-964-11	ELECT	10µF	20%	50V	C2068	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2022	1-126-964-11	ELECT	10µF	20%	50V	C2069	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2024	1-126-933-11	ELECT	100µF	20%	16V	C2070	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2025	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2071	1-126-963-11	ELECT	4.7µF	20%	50V
C2027	1-126-964-11	ELECT	10µF	20%	50V	C2072	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2028	1-126-933-11	ELECT	100µF	20%	16V	C2073	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2029	1-126-964-11	ELECT	10µF	20%	50V	C2074	1-126-933-11	ELECT	100µF	20%	16V
C2031	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2075	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2032	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2076	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2033	1-126-933-11	ELECT	100µF	20%	16V	C2077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2034	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2078	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2035	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2079	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2036	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2080	1-126-963-11	ELECT	4.7µF	20%	50V
C2037	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2081	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2038	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C2082	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2039	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2083	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2040	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C2084	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2041	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2085	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2042	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2086	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2043	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2087	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2044	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C2088	1-216-864-11	SHORT CHIP			
C2045	1-126-933-11	ELECT	100µF	20%	16V	C2089	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2046	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2090	1-216-864-11	SHORT CHIP			
C2047	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2091	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C2048	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C2092	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C2049	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C2096	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2050	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2097	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2051	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	C2098	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2052	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C2099	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2053	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C2100	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2054	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2101	1-126-933-11	ELECT	100µF	20%	16V
C2055	1-126-933-11	ELECT	100µF	20%	16V	C2102	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2056	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V	C2103	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2057	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2104	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2058	1-126-963-11	ELECT	4.7µF	20%	50V	C2105	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2059	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2060	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2107	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2061	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2108	1-126-933-11	ELECT	100µF	20%	16V
C2062	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2109	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2063	1-126-963-11	ELECT	4.7µF	20%	50V	C2110	1-162-919-11	CERAMIC CHIP	22pF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2111	1-126-964-11	ELECT	10µF	20%	50V	C2226	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2112	1-126-964-11	ELECT	10µF	20%	50V	C2227	1-126-933-11	ELECT	100µF	20%	16V
C2113	1-126-964-11	ELECT	10µF	20%	50V	C2228	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2114	1-126-964-11	ELECT	10µF	20%	50V	C2229	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2115	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2230	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2116	1-126-933-11	ELECT	100µF	20%	16V	C2231	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2117	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2232	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2118	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2233	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2120	1-126-964-11	ELECT	10µF	20%	50V	C2234	1-126-933-11	ELECT	100µF	20%	16V
C2121	1-126-964-11	ELECT	10µF	20%	50V	C2235	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2122	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C2236	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2123	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	C2237	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2124	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2238	1-126-933-11	ELECT	100µF	20%	16V
C2126	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2239	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2130	1-126-933-11	ELECT	100µF	20%	16V	C2240	1-126-933-11	ELECT	100µF	20%	16V
C2131	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2241	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2132	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2242	1-126-934-11	ELECT	220µF	20%	16V
C2134	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2243	1-126-934-11	ELECT	220µF	20%	16V
C2135	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	C2244	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2200	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2245	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2201	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2246	1-126-947-11	ELECT	47µF	20%	35V
C2202	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2247	1-162-975-11	CERAMIC CHIP	24pF	5%	50V
C2204	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2248	1-162-975-11	CERAMIC CHIP	24pF	5%	50V
C2205	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2249	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C2206	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2250	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C2207	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2251	1-164-392-11	CERAMIC CHIP	390pF	5%	50V
C2208	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2300	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2209	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2301	1-126-933-11	ELECT	100µF	20%	16V
C2210	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2302	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2211	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2303	8-719-069-55	DIODE	UDZSTE-175.6B		
C2212	1-126-933-11	ELECT	100µF	20%	16V	C2304	8-719-069-55	DIODE	UDZSTE-175.6B		
C2213	1-126-947-11	ELECT	47µF	20%	35V	C2305	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2214	1-126-933-11	ELECT	100µF	20%	16V	C2306	1-162-920-11	CERAMIC CHIP	27pF	5%	50V
C2215	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2307	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2216	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2308	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2217	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2309	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2218	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2310	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2219	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2311	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2220	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2312	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C2221	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2313	1-115-156-11	CERAMIC CHIP	1µF		10V
C2222	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2314	8-719-069-55	DIODE	UDZSTE-175.6B		
C2223	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V	C2315	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2224	1-115-156-11	CERAMIC CHIP	1µF		10V	C2316	8-719-069-55	DIODE	UDZSTE-175.6B		
C2225	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2317	1-164-156-11	CERAMIC CHIP	0.1µF		25V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2318	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2521	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2319	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2522	1-126-947-11	ELECT	47µF	20%	35V
C2320	8-719-069-55	DIODE	UDZSTE-175.6B			C2523	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2331	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2524	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2344	1-164-230-11	CERAMIC CHIP	220pF	5%	50V	C2525	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2347	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2527	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2348	1-126-933-11	ELECT	100µF	20%	16V	C2528	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2349	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V	C2530	1-126-947-11	ELECT	47µF	20%	35V
C2352	1-126-933-11	ELECT	100µF	20%	16V	C2532	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2353	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2533	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2354	1-162-907-11	CERAMIC CHIP	2pF	0.25pF	50V	C2534	1-126-947-11	ELECT	47µF	20%	35V
C2355	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V	C2535	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2358	1-126-935-11	ELECT	470µF	20%	16V	C2536	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2359	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2538	1-126-947-11	ELECT	47µF	20%	35V
C2361	1-126-933-11	ELECT	100µF	20%	16V	C2539	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2362	1-126-933-11	ELECT	100µF	20%	16V	C2540	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2364	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2541	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2366	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2542	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2367	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2543	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2368	1-162-963-11	CERAMIC CHIP	680pF	10%	50V	C2544	1-126-963-11	ELECT	4.7µF	20%	50V
C2369	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C2545	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2370	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2546	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2371	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V	C2548	1-126-947-11	ELECT	47µF	20%	35V
C2372	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	C2549	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2373	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V	C2550	1-126-963-11	ELECT	4.7µF	20%	50V
C2374	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	C2551	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2375	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V	C2553	1-126-947-11	ELECT	47µF	20%	35V
C2376	1-162-963-11	CERAMIC CHIP	680pF	10%	50V	C2554	1-126-947-11	ELECT	47µF	20%	35V
C2500	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C2558	1-126-963-11	ELECT	4.7µF	20%	50V
C2501	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C2559	1-126-933-11	ELECT	100µF	20%	16V
C2503	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2560	1-126-947-11	ELECT	47µF	20%	35V
C2504	1-126-933-11	ELECT	100µF	20%	16V	C2561	1-126-963-11	ELECT	4.7µF	20%	50V
C2506	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2563	1-126-961-11	ELECT	2.2µF	20%	50V
C2508	1-126-933-11	ELECT	100µF	20%	16V	C2564	1-126-961-11	ELECT	2.2µF	20%	50V
C2510	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	C2565	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2512	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V	C2566	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2513	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C2569	1-126-961-11	ELECT	2.2µF	20%	50V
C2514	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C2570	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2515	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2571	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2516	1-126-933-11	ELECT	100µF	20%	16V	C2572	1-126-960-11	ELECT	1µF	20%	50V
C2517	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C2574	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2518	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V	C2575	1-126-960-11	ELECT	1µF	20%	50V
C2519	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C2579	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2520	1-162-960-11	CERAMIC CHIP	220pF	10%	50V	C2582	1-126-933-11	ELECT	100µF	20%	16V
						C2584	1-126-933-11	ELECT	100µF	20%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		REF. NO.	PART NO.	DESCRIPTION	VALUES
		CONNECTOR					**FILTER**	
CN2006	1-793-174-11	SOCKET,PC CONNECTOR (PC BOARD)			FL2001	1-239-848-21	FILTER, LOW PASS	
* CN2301	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE) 10P			FL2002	1-239-848-21	FILTER, LOW PASS	
* CN2304	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE) 11P			FL2003	1-239-848-21	FILTER, LOW PASS	
CN2305	1-770-721-11	CONNECTOR, BOARD TO BOARD 4P			FL2201	1-239-848-21	FILTER, LOW PASS	
					FL2202	1-239-848-21	FILTER, LOW PASS	
		DIODE			FL2203	1-239-848-21	FILTER, LOW PASS	
					FL2204	1-239-848-21	FILTER, LOW PASS	
D2302	8-719-914-44	DIODE	DAP202K					
D2303	8-719-914-44	DIODE	DAP202K					
D2310	8-719-083-57	DIODE	UDZSTE-173.6B				**IC**	
D2500	8-719-404-50	DIODE	MA111-TX					
D2501	8-719-404-50	DIODE	MA111-TX		IC2001	8-752-394-69	IC	CXD2073Q-T4
					IC2004	8-752-102-21	IC	CXA2103AQ
D2502	8-719-404-50	DIODE	MA111-TX		IC2005	8-752-102-21	IC	CXA2103AQ
D2503	8-719-404-50	DIODE	MA111-TX		IC2006	8-752-103-44	IC	CXA2171Q
D2504	8-719-404-50	DIODE	MA111-TX		IC2008	8-759-448-68	IC	NJM2283V-TE1
					IC2009	6-700-205-01	IC	TC74LVX157FT(EL)
		FERRITE BEAD			IC2010	6-700-205-01	IC	TC74LVX157FT(EL)
					IC2200	6-700-960-01	IC	UPD64083GF-3BA
FB2001	1-414-229-11	FERRITE	0μH		IC2201	6-700-399-01	IC	UPC2925T-E1
FB2002	1-414-229-11	FERRITE	0μH		IC2300	6-802-655-01	IC	M306V7MG-050FP
FB2200	1-414-229-11	FERRITE	0μH					
FB2500	1-216-864-11	SHORT CHIP			IC2301	6-801-375-01	IC	PST9129NL
FB2501	1-216-864-11	SHORT CHIP			IC2302	8-759-682-41	IC	M24C32-WMN6T(A)
					IC2305	8-759-641-26	IC	NJM2391DL1-33(TE1)
FB2503	1-216-864-11	SHORT CHIP			IC2500	8-759-394-57	IC	PST593C-MMP-4P
FB2504	1-216-864-11	SHORT CHIP			IC2501	6-801-750-01	IC	TC94A04F-014
FB2505	1-414-229-11	FERRITE	0μH					
FB2507	1-414-229-11	FERRITE	0μH		IC2502	8-759-331-71	IC	NJM4558E(TE2)
FB2508	1-414-229-11	FERRITE	0μH		IC2504	8-759-642-22	IC	UPC29M05T-E2
FB2509	1-216-864-11	SHORT CHIP						
FB2510	1-414-229-11	FERRITE	0μH				**CHIP CONDUCTOR**	
FB2511	1-216-864-11	SHORT CHIP						
FB2512	1-414-229-11	FERRITE	0μH		JR2001	1-216-864-11	SHORT CHIP	
FB2513	1-216-864-11	SHORT CHIP			JR2002	1-216-864-11	SHORT CHIP	
					JR2003	1-216-864-11	SHORT CHIP	
FB2514	1-216-864-11	SHORT CHIP			JR2004	1-216-864-11	SHORT CHIP	
FB2515	1-414-229-11	FERRITE	0μH		JR2005	1-216-864-11	SHORT CHIP	
FB2516	1-414-229-11	FERRITE	0μH					
FB2517	1-414-229-11	FERRITE	0μH		JR2010	1-216-864-11	SHORT CHIP	
FB2518	1-414-229-11	FERRITE	0μH		JR2011	1-216-864-11	SHORT CHIP	
					JR2012	1-216-864-11	SHORT CHIP	
FB2519	1-414-229-11	FERRITE	0μH		JR2013	1-216-864-11	SHORT CHIP	
FB2520	1-216-864-11	SHORT CHIP			JR2014	1-216-864-11	SHORT CHIP	
FB2521	1-216-864-11	SHORT CHIP			JR2015	1-216-864-11	SHORT CHIP	
FB2522	1-414-229-11	FERRITE	0μH					

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
	COIL				
L2001	1-469-555-21	INDUCTOR	10μH		
L2003	1-469-555-21	INDUCTOR	10μH		
L2004	1-469-555-21	INDUCTOR	10μH		
L2005	1-469-555-21	INDUCTOR	10μH		
L2006	1-469-555-21	INDUCTOR	10μH		
L2007	1-469-555-21	INDUCTOR	10μH		
L2008	1-469-555-21	INDUCTOR	10μH		
L2009	1-469-555-21	INDUCTOR	10μH		
L2010	1-469-555-21	INDUCTOR	10μH		
L2011	1-469-555-21	INDUCTOR	10μH		
L2012	1-469-555-21	INDUCTOR	10μH		
L2013	1-469-555-21	INDUCTOR	10μH		
L2200	1-469-555-21	INDUCTOR	10μH		
L2201	1-469-555-21	INDUCTOR	10μH		
L2202	1-469-555-21	INDUCTOR	10μH		
L2203	1-216-001-00	RES-CHIP	10	5%	1/10W
L2204	1-469-555-21	INDUCTOR	10μH		
L2205	1-216-001-00	RES-CHIP	10	5%	1/10W
L2206	1-469-555-21	INDUCTOR	10μH		
L2207	1-469-553-21	INDUCTOR	4.7μH		
L2303	1-469-555-21	INDUCTOR	10μH		
L2501	1-412-537-31	INDUCTOR	100μH		
L2502	1-216-295-91	SHORT CHIP			
	TRANSISTOR				
Q2001	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2002	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2003	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q2004	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2005	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q2006	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2007	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2008	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2009	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2010	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q2012	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q2013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q2014	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2015	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		

REF. NO.	PART NO.	DESCRIPTION	VALUES
Q2016	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2018	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2200	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2202	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2203	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2204	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2205	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2206	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2207	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2208	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2209	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2210	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2211	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2212	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2213	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2214	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2215	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2216	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2301	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2302	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2303	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2304	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2311	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2312	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2313	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2314	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2315	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2316	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2317	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2318	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2320	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2321	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2322	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2323	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2324	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2500	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2501	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2503	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2504	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2505	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q2506	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2507	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2508	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2509	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2510	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2511	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2512	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q2513	8-729-422-27	TRANSISTOR	2SD601A-Q		
	RESISTOR				
R2001	1-216-809-11	METAL CHIP	100	5%	1/10W
R2002	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2003	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2004	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2005	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2007	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R2008	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R2009	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2010	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2011	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2012	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2013	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2015	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R2016	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2017	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2018	1-216-812-11	METAL CHIP	180	5%	1/10W
R2020	1-216-811-11	METAL CHIP	150	5%	1/10W
R2022	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R2023	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2024	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2025	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R2026	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R2027	1-216-864-11	SHORT CHIP			
R2030	1-216-817-11	METAL CHIP	470	5%	1/10W
R2032	1-216-817-11	METAL CHIP	470	5%	1/10W
R2035	1-216-817-11	METAL CHIP	470	5%	1/10W
R2036	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2040	1-216-817-11	METAL CHIP	470	5%	1/10W
R2041	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2045	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R2046	1-218-686-11	METAL CHIP	560	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2048	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R2049	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R2050	1-216-817-11	METAL CHIP	470	5%	1/10W
R2051	1-216-817-11	METAL CHIP	470	5%	1/10W
R2052	1-216-835-11	METAL CHIP	15K	5%	1/10W
R2053	1-216-864-11	SHORT CHIP			
R2054	1-216-835-11	METAL CHIP	15K	5%	1/10W
R2055	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2056	1-216-809-11	METAL CHIP	100	5%	1/10W
R2057	1-216-809-11	METAL CHIP	100	5%	1/10W
R2058	1-216-809-11	METAL CHIP	100	5%	1/10W
R2059	1-216-809-11	METAL CHIP	100	5%	1/10W
R2061	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2064	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R2067	1-216-809-11	METAL CHIP	100	5%	1/10W
R2069	1-216-864-11	SHORT CHIP			
R2071	1-216-864-11	SHORT CHIP			
R2072	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2073	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2074	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2075	1-216-864-11	SHORT CHIP			
R2076	1-216-864-11	SHORT CHIP			
R2077	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2081	1-216-809-11	METAL CHIP	100	5%	1/10W
R2082	1-216-809-11	METAL CHIP	100	5%	1/10W
R2083	1-216-851-11	METAL CHIP	330K	5%	1/10W
R2086	1-216-818-11	METAL CHIP	560	5%	1/10W
R2087	1-216-818-11	METAL CHIP	560	5%	1/10W
R2091	1-216-809-11	METAL CHIP	100	5%	1/10W
R2092	1-216-818-11	METAL CHIP	560	5%	1/10W
R2093	1-216-818-11	METAL CHIP	560	5%	1/10W
R2094	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2095	1-216-864-11	SHORT CHIP			
R2097	1-216-809-11	METAL CHIP	100	5%	1/10W
R2099	1-216-809-11	METAL CHIP	100	5%	1/10W
R2101	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2103	1-216-809-11	METAL CHIP	100	5%	1/10W
R2105	1-216-809-11	METAL CHIP	100	5%	1/10W
R2107	1-216-809-11	METAL CHIP	100	5%	1/10W
R2110	1-216-818-11	METAL CHIP	560	5%	1/10W
R2111	1-216-818-11	METAL CHIP	560	5%	1/10W
R2112	1-216-809-11	METAL CHIP	100	5%	1/10W
R2113	1-216-809-11	METAL CHIP	100	5%	1/10W
R2114	1-216-805-11	METAL CHIP	47	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2115	1-216-805-11	METAL CHIP	47	5%	1/10W	R2234	1-216-820-11	METAL CHIP	820	5%	1/10W
R2116	1-216-805-11	METAL CHIP	47	5%	1/10W	R2235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2118	1-216-809-11	METAL CHIP	100	5%	1/10W	R2236	1-216-813-11	METAL CHIP	220	5%	1/10W
R2119	1-216-809-11	METAL CHIP	100	5%	1/10W	R2237	1-216-820-11	METAL CHIP	820	5%	1/10W
R2120	1-216-809-11	METAL CHIP	100	5%	1/10W	R2238	1-216-819-11	METAL CHIP	680	5%	1/10W
R2123	1-216-809-11	METAL CHIP	100	5%	1/10W	R2239	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2124	1-216-809-11	METAL CHIP	100	5%	1/10W	R2240	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2125	1-216-809-11	METAL CHIP	100	5%	1/10W	R2241	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2126	1-216-809-11	METAL CHIP	100	5%	1/10W	R2242	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R2131	1-216-809-11	METAL CHIP	100	5%	1/10W	R2243	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2133	1-216-864-11	SHORT CHIP				R2244	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2201	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2245	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2202	1-216-809-11	METAL CHIP	100	5%	1/10W	R2246	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2203	1-216-809-11	METAL CHIP	100	5%	1/10W	R2247	1-216-805-11	METAL CHIP	47	5%	1/10W
R2204	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2205	1-216-864-11	SHORT CHIP				R2249	1-216-805-11	METAL CHIP	47	5%	1/10W
R2206	1-216-864-11	SHORT CHIP				R2250	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2207	1-216-809-11	METAL CHIP	100	5%	1/10W	R2251	1-216-818-11	METAL CHIP	560	5%	1/10W
R2208	1-216-809-11	METAL CHIP	100	5%	1/10W	R2252	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2209	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2253	1-216-809-11	METAL CHIP	100	5%	1/10W
R2210	1-216-818-11	METAL CHIP	560	5%	1/10W	R2254	1-216-817-11	METAL CHIP	470	5%	1/10W
R2211	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2255	1-216-817-11	METAL CHIP	470	5%	1/10W
R2212	1-216-818-11	METAL CHIP	560	5%	1/10W	R2256	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2257	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2214	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2258	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2215	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2259	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2216	1-216-817-11	METAL CHIP	470	5%	1/10W	R2260	1-216-840-11	METAL CHIP	39K	5%	1/10W
R2217	1-216-817-11	METAL CHIP	470	5%	1/10W	R2261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2218	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2298	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2219	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2299	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2220	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2300	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2301	1-216-809-11	METAL CHIP	100	5%	1/10W
R2222	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2302	1-216-809-11	METAL CHIP	100	5%	1/10W
R2223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2303	1-216-809-11	METAL CHIP	100	5%	1/10W
R2224	1-216-809-11	METAL CHIP	100	5%	1/10W	R2304	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2225	1-216-818-11	METAL CHIP	560	5%	1/10W	R2305	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2226	1-216-817-11	METAL CHIP	470	5%	1/10W	R2306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2227	1-216-816-11	METAL CHIP	390	5%	1/10W	R2307	1-216-809-11	METAL CHIP	100	5%	1/10W
R2228	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2308	1-216-809-11	METAL CHIP	100	5%	1/10W
R2229	1-216-849-11	METAL CHIP	220K	5%	1/10W	R2309	1-216-809-11	METAL CHIP	100	5%	1/10W
R2230	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2311	1-216-809-11	METAL CHIP	100	5%	1/10W
R2231	1-216-819-11	METAL CHIP	680	5%	1/10W	R2312	1-216-809-11	METAL CHIP	100	5%	1/10W
R2232	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2313	1-216-809-11	METAL CHIP	100	5%	1/10W
R2233	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2314	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2315	1-216-809-11	METAL CHIP	100	5%	1/10W	R2362	1-216-805-11	METAL CHIP	47	5%	1/10W
R2316	1-216-809-11	METAL CHIP	100	5%	1/10W	R2363	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2317	1-216-809-11	METAL CHIP	100	5%	1/10W	R2364	1-216-809-11	METAL CHIP	100	5%	1/10W
R2318	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2365	1-216-809-11	METAL CHIP	100	5%	1/10W
R2319	1-216-809-11	METAL CHIP	100	5%	1/10W	R2366	1-216-864-11	SHORT CHIP			
R2320	1-216-809-11	METAL CHIP	100	5%	1/10W	R2367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2321	1-216-809-11	METAL CHIP	100	5%	1/10W	R2368	1-216-809-11	METAL CHIP	100	5%	1/10W
R2322	1-216-809-11	METAL CHIP	100	5%	1/10W	R2369	1-216-805-11	METAL CHIP	47	5%	1/10W
R2323	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2324	1-216-809-11	METAL CHIP	100	5%	1/10W	R2371	1-216-809-11	METAL CHIP	100	5%	1/10W
R2325	1-216-864-11	SHORT CHIP				R2372	1-216-809-11	METAL CHIP	100	5%	1/10W
R2326	1-216-809-11	METAL CHIP	100	5%	1/10W	R2373	1-216-809-11	METAL CHIP	100	5%	1/10W
R2327	1-216-809-11	METAL CHIP	100	5%	1/10W	R2374	1-216-864-11	SHORT CHIP			
R2328	1-216-809-11	METAL CHIP	100	5%	1/10W	R2375	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2329	1-216-815-11	METAL CHIP	330	5%	1/10W	R2376	1-216-805-11	METAL CHIP	47	5%	1/10W
R2330	1-216-817-11	METAL CHIP	470	5%	1/10W	R2377	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2333	1-216-809-11	METAL CHIP	100	5%	1/10W	R2378	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2335	1-216-820-11	METAL CHIP	820	5%	1/10W	R2379	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2336	1-216-809-11	METAL CHIP	100	5%	1/10W	R2380	1-216-809-11	METAL CHIP	100	5%	1/10W
R2337	1-216-809-11	METAL CHIP	100	5%	1/10W	R2381	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2338	1-216-864-11	SHORT CHIP				R2383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2339	1-216-809-11	METAL CHIP	100	5%	1/10W	R2384	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2340	1-216-809-11	METAL CHIP	100	5%	1/10W	R2386	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2341	1-216-809-11	METAL CHIP	100	5%	1/10W	R2387	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2388	1-216-815-11	METAL CHIP	330	5%	1/10W
R2343	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2389	1-216-815-11	METAL CHIP	330	5%	1/10W
R2344	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2400	1-216-811-11	METAL CHIP	150	5%	1/10W
R2345	1-216-809-11	METAL CHIP	100	5%	1/10W	R2401	1-216-811-11	METAL CHIP	150	5%	1/10W
R2346	1-218-734-11	METAL CHIP	56K	0.50%	1/10W	R2402	1-216-811-11	METAL CHIP	150	5%	1/10W
R2347	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2412	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2348	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2419	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2349	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2350	1-216-809-11	METAL CHIP	100	5%	1/10W	R2425	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2351	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2428	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R2352	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2434	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2353	1-216-809-11	METAL CHIP	100	5%	1/10W	R2435	1-216-820-11	METAL CHIP	820	5%	1/10W
R2354	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2436	1-216-820-11	METAL CHIP	820	5%	1/10W
R2355	1-216-809-11	METAL CHIP	100	5%	1/10W	R2437	1-216-809-11	METAL CHIP	100	5%	1/10W
R2356	1-216-805-11	METAL CHIP	47	5%	1/10W	R2438	1-216-820-11	METAL CHIP	820	5%	1/10W
R2357	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2440	1-216-864-11	SHORT CHIP			
R2358	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2441	1-216-864-11	SHORT CHIP			
R2359	1-216-805-11	METAL CHIP	47	5%	1/10W	R2450	1-216-864-11	SHORT CHIP			
R2360	1-216-809-11	METAL CHIP	100	5%	1/10W	R2452	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2361	1-216-864-11	SHORT CHIP				R2453	1-216-833-11	METAL CHIP	10K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2454	1-216-809-11	METAL CHIP	100	5%	1/10W	R2520	1-216-864-11	SHORT CHIP			
R2455	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2521	1-216-864-11	SHORT CHIP			
R2459	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2460	1-216-809-11	METAL CHIP	100	5%	1/10W	R2523	1-216-813-11	METAL CHIP	220	5%	1/10W
R2463	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2524	1-216-809-11	METAL CHIP	100	5%	1/10W
R2464	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2525	1-216-813-11	METAL CHIP	220	5%	1/10W
R2466	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2526	1-216-864-11	SHORT CHIP			
R2467	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2528	1-216-809-11	METAL CHIP	100	5%	1/10W
R2469	1-216-809-11	METAL CHIP	100	5%	1/10W	R2529	1-216-809-11	METAL CHIP	100	5%	1/10W
R2470	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2530	1-216-809-11	METAL CHIP	100	5%	1/10W
R2471	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2472	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2532	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2473	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2533	1-216-864-11	SHORT CHIP			
R2474	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2534	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2480	1-216-845-11	METAL CHIP	100K	5%	1/10W	R2535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2481	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2538	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2484	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2539	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2485	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2540	1-216-864-11	SHORT CHIP			
R2486	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2541	1-216-864-11	SHORT CHIP			
R2487	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2542	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2488	1-216-857-11	METAL CHIP	1M	5%	1/10W	R2543	1-216-864-11	SHORT CHIP			
R2489	1-216-817-11	METAL CHIP	470	5%	1/10W	R2546	1-216-813-11	METAL CHIP	220	5%	1/10W
R2491	1-216-817-11	METAL CHIP	470	5%	1/10W	R2547	1-216-813-11	METAL CHIP	220	5%	1/10W
R2492	1-216-857-11	METAL CHIP	1M	5%	1/10W	R2548	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2493	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2549	1-216-813-11	METAL CHIP	220	5%	1/10W
R2494	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2550	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2500	1-216-809-11	METAL CHIP	100	5%	1/10W	R2551	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2501	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2552	1-216-809-11	METAL CHIP	100	5%	1/10W
R2502	1-216-864-11	SHORT CHIP				R2553	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2554	1-216-809-11	METAL CHIP	100	5%	1/10W
R2506	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2555	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2556	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2510	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2511	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2513	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2561	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2514	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2562	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2515	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2516	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2564	1-216-817-11	METAL CHIP	470	5%	1/10W
R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2565	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2566	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2519	1-216-857-11	METAL CHIP	1M	5%	1/10W	R2567	1-216-821-11	METAL CHIP	1K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2568	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1506	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
R2569	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1507	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
R2570	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1508	1-126-960-11	ELECT	1µF	20%	50V
R2571	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1509	1-126-960-11	ELECT	1µF	20%	50V
R2572	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1510	1-126-960-11	ELECT	1µF	20%	50V
R2573	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1511	1-126-960-11	ELECT	1µF	20%	50V
R2574	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1512	1-126-960-11	ELECT	1µF	20%	50V
R2575	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1513	1-126-960-11	ELECT	1µF	20%	50V
R2576	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1519	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
R2577	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1520	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
R2578	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1521	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
R2579	1-216-837-11	METAL CHIP	22K	5%	1/10W	C1522	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
R2580	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1523	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R2581	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C1524	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
R2582	1-216-809-11	METAL CHIP	100	5%	1/10W	C1525	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R2584	1-216-809-11	METAL CHIP	100	5%	1/10W	C1526	1-126-964-11	ELECT	10µF	20%	50V
R2585	1-216-864-11	SHORT CHIP				C1527	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R2593	1-216-864-11	SHORT CHIP				C1528	1-126-933-11	ELECT	100µF	20%	16V
R2603	1-216-845-11	METAL CHIP	100K	5%	1/10W	C1529	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
R2604	1-216-845-11	METAL CHIP	100K	5%	1/10W	C1530	1-126-964-11	ELECT	10µF	20%	50V
R2605	1-216-864-11	SHORT CHIP				C1531	1-126-941-11	ELECT	470µF	20%	25V
R2607	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1532	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
R2608	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1533	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
						C1534	1-126-933-11	ELECT	100µF	20%	16V
						C1535	1-126-933-11	ELECT	100µF	20%	16V
		CRYSTAL									
						C1536	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
X2001	1-567-505-11	OSCILLATOR, CRYSTAL				C1537	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
X2002	1-567-505-11	OSCILLATOR, CRYSTAL				C1538	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
X2003	1-781-282-11	VIBRATOR, CERAMIC				C1539	1-164-156-11	CERAMIC CHIP	0.1µF		25V
X2200	1-767-606-11	VIBRATOR, CRYSTAL				C1540	1-126-933-11	ELECT	100µF	20%	16V
X2300	1-795-572-11	VIBRATOR, CRYSTAL									
						C1541	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
X2500	1-767-639-21	VIBRATOR, CRYSTAL				C1542	1-249-405-11	CARBON	100	5%	1/4W
						C1544	1-249-405-11	CARBON	100	5%	1/4W
U						C1545	1-126-933-11	ELECT	100µF	20%	16V
						C1546	1-164-156-11	CERAMIC CHIP	0.1µF		25V
*	A-1300-321-A	U BOARD, COMPLETE									
						C1548	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
						C1550	1-126-960-11	ELECT	1µF	20%	50V
		CAPACITOR				C1551	1-126-960-11	ELECT	1µF	20%	50V
						C1552	1-126-960-11	ELECT	1µF	20%	50V
C1501	1-109-982-11	CERAMIC CHIP	1µF	10%	10V	C1553	1-126-960-11	ELECT	1µF	20%	50V
C1502	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V						
C1503	1-109-982-11	CERAMIC CHIP	1µF	10%	10V	C1554	1-126-960-11	ELECT	1µF	20%	50V
C1504	1-109-982-11	CERAMIC CHIP	1µF	10%	10V	C1555	1-126-960-11	ELECT	1µF	20%	50V
C1505	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C1556	1-126-933-11	ELECT	100µF	20%	16V
						C1557	1-164-156-11	CERAMIC CHIP	0.1µF		25V

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES
C1558	1-126-933-11	ELECT	100µF	20%	16V		D1531	8-719-977-28	DIODE	DTZ10B
C1559	1-126-933-11	ELECT	100µF	20%	16V		D1532	8-719-977-28	DIODE	DTZ10B
C1560	1-126-933-11	ELECT	100µF	20%	16V		D1533	8-719-977-28	DIODE	DTZ10B
C1561	1-126-933-11	ELECT	100µF	20%	16V		D1534	8-719-977-28	DIODE	DTZ10B
C1562	1-126-933-11	ELECT	100µF	20%	16V		D1535	8-719-977-28	DIODE	DTZ10B
C1563	1-126-933-11	ELECT	100µF	20%	16V					

CONNECTOR

* CN1501	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P
CN1502	1-793-173-11	PIN, PC CONNECTOR(PC BOARD)	50P
CN1503	1-793-419-11	CONNECTOR, BOARD TO BOARD	4P

DIODE

D1501	8-719-977-28	DIODE	DTZ10B
D1502	8-719-977-28	DIODE	DTZ10B
D1503	8-719-977-28	DIODE	DTZ10B
D1504	8-719-977-28	DIODE	DTZ10B
D1505	8-719-977-28	DIODE	DTZ10B
D1506	8-719-977-28	DIODE	DTZ10B
D1507	8-719-977-28	DIODE	DTZ10B
D1508	8-719-977-28	DIODE	DTZ10B
D1509	8-719-977-28	DIODE	DTZ10B
D1510	8-719-977-28	DIODE	DTZ10B
D1511	8-719-977-28	DIODE	DTZ10B
D1512	8-719-977-28	DIODE	DTZ10B
D1513	8-719-977-28	DIODE	DTZ10B
D1514	8-719-977-28	DIODE	DTZ10B
D1515	8-719-977-28	DIODE	DTZ10B
D1516	8-719-977-28	DIODE	DTZ10B
D1517	8-719-977-28	DIODE	DTZ10B
D1518	8-719-914-43	DIODE	DAN202K
D1519	8-719-977-28	DIODE	DTZ10B
D1520	8-719-977-28	DIODE	DTZ10B
D1521	8-719-977-28	DIODE	DTZ10B
D1522	8-719-977-28	DIODE	DTZ10B
D1523	8-719-977-28	DIODE	DTZ10B
D1524	8-719-977-28	DIODE	DTZ10B
D1525	8-719-977-28	DIODE	DTZ10B
D1526	8-719-977-28	DIODE	DTZ10B
D1527	8-719-977-28	DIODE	DTZ10B
D1528	8-719-977-28	DIODE	DTZ10B
D1529	8-719-977-28	DIODE	DTZ10B
D1530	8-719-977-28	DIODE	DTZ10B

IC

IC1502	8-752-080-04	IC	CXA2069Q
IC1505	8-759-548-56	IC	M52055FP

JACK

J1501	1-573-967-12	BLOCK, (S) TERMINAL	
J1502	1-750-516-21	JACK BLOCK, PIN	2P
J1503	1-750-517-21	JACK BLOCK, PIN	3P
J1504	1-750-517-21	JACK BLOCK, PIN	3P
J1505	1-764-143-11	JACK	
J1506	1-764-143-11	JACK	
J1507	1-750-516-21	JACK BLOCK, PIN	2P
J1508	1-815-015-11	JACK BLOCK, PIN	
J1509	1-815-015-11	JACK BLOCK, PIN	

COIL

L1502	1-469-555-21	INDUCTOR	10µH
L1503	1-469-555-21	INDUCTOR	10µH
L1504	1-469-555-21	INDUCTOR	10µH
L1505	1-469-555-21	INDUCTOR	10µH
L1506	1-469-555-21	INDUCTOR	10µH

TRANSISTOR

Q1501	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1505	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1506	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1507	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1508	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1509	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1510	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1511	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1513	8-729-422-27	TRANSISTOR	2SD601A-Q

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q1515	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R1540	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1516	8-729-422-27	TRANSISTOR	2SD601A-Q			R1541	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1518	8-729-422-27	TRANSISTOR	2SD601A-Q			R1542	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
Q1519	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R1543	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1520	8-729-422-27	TRANSISTOR	2SD601A-Q			R1544	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
Q1521	8-729-422-27	TRANSISTOR	2SD601A-Q			R1545	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
Q1522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R1546	1-216-809-11	METAL CHIP	100	5%	1/10W
Q1523	8-729-422-27	TRANSISTOR	2SD601A-Q			R1547	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
Q1524	8-729-422-27	TRANSISTOR	2SD601A-Q			R1548	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R1549	1-216-809-11	METAL CHIP	100	5%	1/10W
	RESISTOR					R1550	1-216-809-11	METAL CHIP	100	5%	1/10W
						R1551	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1501	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1552	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1502	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1554	1-216-809-11	METAL CHIP	100	5%	1/10W
R1503	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R1555	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1504	1-218-665-11	METAL CHIP	75	0.50%	1/10W						
R1505	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R1556	1-216-853-11	METAL CHIP	470K	5%	1/10W
						R1557	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1506	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1507	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1559	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1508	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R1560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1509	1-218-665-11	METAL CHIP	75	0.50%	1/10W						
R1510	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R1562	1-216-809-11	METAL CHIP	100	5%	1/10W
						R1563	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1511	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1565	1-216-809-11	METAL CHIP	100	5%	1/10W
R1512	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1566	1-216-809-11	METAL CHIP	100	5%	1/10W
R1513	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R1567	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1514	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R1520	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1568	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R1569	1-216-809-11	METAL CHIP	100	5%	1/10W
R1521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1570	1-216-809-11	METAL CHIP	100	5%	1/10W
R1522	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R1571	1-216-809-11	METAL CHIP	100	5%	1/10W
R1523	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R1572	1-216-809-11	METAL CHIP	100	5%	1/10W
R1524	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1525	1-216-809-11	METAL CHIP	100	5%	1/10W	R1573	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
						R1574	1-216-809-11	METAL CHIP	100	5%	1/10W
R1526	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1575	1-216-809-11	METAL CHIP	100	5%	1/10W
R1527	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1530	1-216-809-11	METAL CHIP	100	5%	1/10W	R1577	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1531	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1532	1-216-809-11	METAL CHIP	100	5%	1/10W	R1578	1-216-857-11	METAL CHIP	1M	5%	1/10W
						R1579	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1580	1-216-809-11	METAL CHIP	100	5%	1/10W
R1534	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1581	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1535	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1582	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1536	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R1537	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1583	1-216-809-11	METAL CHIP	100	5%	1/10W
						R1584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1538	1-216-806-11	METAL CHIP	56	5%	1/10W	R1585	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1539	1-216-805-11	METAL CHIP	47	5%	1/10W	R1586	1-216-813-11	METAL CHIP	220	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1587	1-216-809-11	METAL CHIP	100	5%	1/10W		R1648	1-216-803-11	METAL CHIP	33	5%	1/10W
R1588	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R1649	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1589	1-216-813-11	METAL CHIP	220	5%	1/10W		R1650	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1590	1-216-809-11	METAL CHIP	100	5%	1/10W		R1651	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1591	1-216-813-11	METAL CHIP	220	5%	1/10W		R1652	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1592	1-216-833-11	METAL CHIP	10K	5%	1/10W		R1653	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1593	1-216-809-11	METAL CHIP	100	5%	1/10W		R1654	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1594	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R1655	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1595	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R1656	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1596	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R1657	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1597	1-216-809-11	METAL CHIP	100	5%	1/10W		R1658	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1598	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R1659	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1600	1-216-809-11	METAL CHIP	100	5%	1/10W		R1660	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1604	1-216-825-11	METAL CHIP	2.2K	5%	1/10W							
R1607	1-216-845-11	METAL CHIP	100K	5%	1/10W							

VARISTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
VD1512	1-803-974-21	VARISTOR, CHIP	(1608)
VD1513	1-803-974-21	VARISTOR, CHIP	(1608)
VD1516	1-803-974-21	VARISTOR, CHIP	(1608)

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1608	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1610	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1612	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1613	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1615	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1617	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1618	1-216-864-11	SHORT CHIP			
R1619	1-216-809-11	METAL CHIP	100	5%	1/10W

HM

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*	A-1300-323-A	HM BOARD, COMPLETE	

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1620	1-216-809-11	METAL CHIP	100	5%	1/10W
R1621	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1622	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1623	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1624	1-216-853-11	METAL CHIP	470K	5%	1/10W

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C7205	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7206	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C7208	1-124-779-00	ELECT CHIP	10µF	20%	16V
C7209	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7210	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1625	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1626	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1627	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1628	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1629	1-216-853-11	METAL CHIP	470K	5%	1/10W

C7212	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C7213	1-124-778-00	ELECT CHIP	22µF	20%	6.3V
C7214	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C7215	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C7216	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1630	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1631	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1632	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1635	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1636	1-216-821-11	METAL CHIP	1K	5%	1/10W

C7217	1-124-778-00	ELECT CHIP	22µF	20%	6.3V
C7219	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7220	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1637	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1645	1-216-809-11	METAL CHIP	100	5%	1/10W
R1646	1-216-803-11	METAL CHIP	33	5%	1/10W
R1647	1-216-803-11	METAL CHIP	33	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		REF. NO.	PART NO.	DESCRIPTION	VALUES		
		CONNECTOR					**TRANSISTOR**			
* CN7201	1-816-402-12	CONNECTOR, MEMORY STICK			Q7201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
* CN7202	1-816-124-11	PIN, CONNECTOR (FOR PWB)	18P		Q7202	8-729-422-27	TRANSISTOR	2SD601A-Q		
CN7205	1-695-915-11	TAB (CONTACT)			Q7203	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
		DIODE					**RESISTOR**			
					R7201	1-216-801-11	METAL CHIP	22	5%	1/10W
D7201	8-719-800-76	DIODE	1SS226		R7202	1-216-801-11	METAL CHIP	22	5%	1/10W
D7202	8-719-800-76	DIODE	1SS226		R7204	1-216-801-11	METAL CHIP	22	5%	1/10W
D7203	8-719-800-76	DIODE	1SS226		R7205	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
D7204	8-719-800-76	DIODE	1SS226		R7206	1-216-809-11	METAL CHIP	100	5%	1/10W
D7205	8-719-800-76	DIODE	1SS226							
					R7207	1-216-809-11	METAL CHIP	100	5%	1/10W
D7206	8-719-800-76	DIODE	1SS226		R7208	1-216-809-11	METAL CHIP	100	5%	1/10W
D7207	8-719-800-76	DIODE	1SS226		R7209	1-216-809-11	METAL CHIP	100	5%	1/10W
D7208	8-719-800-76	DIODE	1SS226		R7210	1-216-803-11	METAL CHIP	33	5%	1/10W
D7209	6-500-182-01	DIODE	L1503CB/ID		R7221	1-216-821-11	METAL CHIP	1K	5%	1/10W
D7210	8-719-083-58	DIODE	UDZSTE-173.9B							
					R7222	1-216-809-11	METAL CHIP	100	5%	1/10W
D7211	8-719-083-58	DIODE	UDZSTE-173.9B		R7224	1-216-833-11	METAL CHIP	10K	5%	1/10W
D7212	8-719-800-76	DIODE	1SS226		R7225	1-216-845-11	METAL CHIP	100K	5%	1/10W
D7213	8-719-800-76	DIODE	1SS226		R7226	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
D7214	8-719-800-76	DIODE	1SS226		R7228	1-216-864-11	SHORT CHIP			
D7215	8-719-800-76	DIODE	1SS226							
					R7231	1-216-864-11	SHORT CHIP			
D7216	8-719-800-76	DIODE	1SS226		R7232	1-216-841-11	METAL CHIP	47K	5%	1/10W
D7217	8-719-800-76	DIODE	1SS226		R7233	1-216-841-11	METAL CHIP	47K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
		FERRITE BEAD			
FB7201	1-414-921-11	FERRITE	0µH		
FB7202	1-414-921-11	FERRITE	0µH		
FB7203	1-414-921-11	FERRITE	0µH		
FB7204	1-414-921-11	FERRITE	0µH		
*	A-1300-324-A	UD BOARD, COMPLETE			
		IC			
		CAPACITOR			
IC7201	8-759-639-86	IC	SN65LVDS32DR		
C7001	1-126-395-11	ELECT CHIP	22µF	20%	16V
IC7202	6-701-763-11	IC	DS90LV017ATMX		
C7002	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
IC7203	8-759-698-08	IC	SN74CBTLV1G125DCKR		
C7004	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7005	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C7006	1-124-779-00	ELECT CHIP	10µF	20%	16V
		COIL			
C7007	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
L7201	1-419-370-21	INDUCTOR	0µH		
C7008	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
L7202	1-419-370-21	INDUCTOR	0µH		
C7010	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
L7203	1-419-370-21	INDUCTOR	0µH		
C7011	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
L7204	1-419-370-21	INDUCTOR	0µH		
C7012	1-124-779-00	ELECT CHIP	10µF	20%	16V
L7205	1-419-370-21	INDUCTOR	0µH		

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
						C7058	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7013	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C7059	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7014	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C7060	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7015	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C7061	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7016	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C7062	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7017	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C7064	1-126-395-11	ELECT CHIP	22μF	20%	16V
C7018	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C7065	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C7019	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C7066	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C7020	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C7067	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C7021	1-124-779-00	ELECT CHIP	10μF	20%	16V	C7068	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C7022	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V	C7069	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C7023	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C7070	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7024	1-124-779-00	ELECT CHIP	10μF	20%	16V	C7071	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7025	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C7078	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7026	1-124-779-00	ELECT CHIP	10μF	20%	16V	C7079	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7027	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C7080	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C7028	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C7029	1-164-156-11	CERAMIC CHIP	0.1μF		25V			**CONNECTOR**			
C7030	1-162-927-11	CERAMIC CHIP	100pF	5%	50V						
C7031	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	* CN7001	1-816-228-21	CONNECTOR, DVI			
C7032	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	* CN7002	1-564-526-11	PLUG, CONNECTOR	11P		
						* CN7004	1-564-519-11	PLUG, CONNECTOR	4P		
C7033	1-124-779-00	ELECT CHIP	10μF	20%	16V						
C7034	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C7035	1-164-156-11	CERAMIC CHIP	0.1μF		25V			**DIODE**			
C7036	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C7037	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D7001	8-719-914-43	DIODE	DAN202K		
						D7002	8-719-069-55	DIODE	UDZSTE-175.6B		
C7038	1-164-156-11	CERAMIC CHIP	0.1μF		25V	D7003	8-719-069-55	DIODE	UDZSTE-175.6B		
C7039	1-126-395-11	ELECT CHIP	22μF	20%	16V	D7004	8-719-069-55	DIODE	UDZSTE-175.6B		
C7040	1-162-921-11	CERAMIC CHIP	33pF	5%	50V	D7006	8-719-069-55	DIODE	UDZSTE-175.6B		
C7041	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C7042	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
								FERRITE BEAD			
C7043	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C7044	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB7001	1-414-760-21	FERRITE	0μH		
C7045	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB7002	1-414-760-21	FERRITE	0μH		
C7046	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB7003	1-414-760-21	FERRITE	0μH		
C7047	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB7004	1-414-760-21	FERRITE	0μH		
C7048	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C7049	1-164-156-11	CERAMIC CHIP	0.1μF		25V			**FILTER**			
C7050	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C7051	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FL7001	1-400-087-21	FILTER, EMI REMOVAL (SMD)			
C7052	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FL7002	1-234-560-21	FILTER, LOW PASS			
						FL7003	1-234-559-21	FILTER, LOW PASS			
C7053	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FL7004	1-234-559-21	FILTER, LOW PASS			
C7056	1-126-395-11	ELECT CHIP	22μF	20%	16V						
C7057	1-162-921-11	CERAMIC CHIP	33pF	5%	50V						

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
IC					
IC7001	8-759-640-39	IC	BR24C02F-WE2		
IC7002	8-749-015-18	IC	PQ07VZ012ZP		
IC7003	8-749-015-18	IC	PQ07VZ012ZP		
IC7004	6-702-080-01	IC	GM7030-H		
IC7005	6-802-346-01	IC	ST72631K4M1/NNLTR		
IC7006	8-759-641-86	IC	BR24C16F-E2		
IC7007	6-702-170-01	IC	PACDN006S		
IC7008	6-702-170-01	IC	PACDN006S		
IC7009	6-702-170-01	IC	PACDN006S		
COIL					
L7001	1-412-058-11	INDUCTOR	10µH		
L7002	1-412-058-11	INDUCTOR	10µH		
RESISTOR					
R7003	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7004	1-218-852-11	METAL CHIP	1.6K	0.50%	1/10W
R7007	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7012	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7013	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7014	1-216-821-11	METAL CHIP	1K	5%	1/10W
R7015	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7016	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7021	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7024	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7029	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R7030	1-216-864-11	SHORT CHIP			
R7032	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7034	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7036	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7037	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7041	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7044	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R7045	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7047	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7051	1-216-864-11	SHORT CHIP			
R7053	1-216-833-11	METAL CHIP	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7056	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7057	1-216-864-11	SHORT CHIP			
R7058	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7059	1-216-864-11	SHORT CHIP			
R7060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7061	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7062	1-216-864-11	SHORT CHIP			
R7063	1-216-809-11	METAL CHIP	100	5%	1/10W
R7064	1-216-809-11	METAL CHIP	100	5%	1/10W
R7065	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7066	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R7067	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7068	1-216-801-11	METAL CHIP	22	5%	1/10W
R7069	1-216-801-11	METAL CHIP	22	5%	1/10W
R7071	1-216-803-11	METAL CHIP	33	5%	1/10W
R7072	1-216-803-11	METAL CHIP	33	5%	1/10W
R7075	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R7080	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7087	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R7096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7097	1-216-809-11	METAL CHIP	100	5%	1/10W
R7098	1-216-809-11	METAL CHIP	100	5%	1/10W
R7099	1-216-809-11	METAL CHIP	100	5%	1/10W
R7101	1-216-864-11	SHORT CHIP			
R7106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R7108	1-216-805-11	METAL CHIP	47	5%	1/10W
R7109	1-216-805-11	METAL CHIP	47	5%	1/10W
R7111	1-216-864-11	SHORT CHIP			
R7112	1-216-864-11	SHORT CHIP			
R7113	1-216-864-11	SHORT CHIP			
R7114	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7115	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7116	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7117	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R7119	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R7121	1-216-864-11	SHORT CHIP			
R7123	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R7124	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R7125	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R7126	1-216-864-11	SHORT CHIP			
CRYSTAL					
X7001	1-795-568-21	VIBRATOR, CRYSTAL			
X7002	1-795-567-21	VIBRATOR, CRYSTAL			

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Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

*   A-1300-325-A   B BOARD, COMPLETE

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2801	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2802	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2804	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C2805	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2806	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2808	1-126-398-11	ELECT CHIP	4.7µF	20%	35V
C2809	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2810	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2811	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2812	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2813	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2814	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2815	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2816	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2817	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2818	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2819	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2820	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2821	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2822	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2823	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2824	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2825	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2826	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2827	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2828	1-110-563-11	CERAMIC CHIP	0.068µF	10%	16V
C2829	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2830	1-128-996-11	ELECT CHIP	4.7µF	20%	50V
C2831	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2833	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C2834	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2835	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2836	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2837	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2840	1-107-826-11	CERAMIC CHIP	0.1µF	10%	1
C2841	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2842	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2843	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2844	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2845	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2846	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2847	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C2849	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2850	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2851	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3001	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3002	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3003	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3005	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3006	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3008	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3009	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3011	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3012	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3013	1-128-391-11	ELECT CHIP	330µF	20%	6.3V
C3014	1-128-391-11	ELECT CHIP	330µF	20%	6.3V
C3015	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3017	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3018	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3020	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3021	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3023	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3024	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3028	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3029	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3030	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3031	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3032	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3033	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C3034	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3035	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3036	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3038	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3040	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3358	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3042	1-100-202-21	ELECT CHIP	330µF	20%	6.3V	C3359	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3044	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3360	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3046	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3363	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3047	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3364	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3048	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3365	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3049	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3366	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3089	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3367	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3090	1-126-204-11	ELECT CHIP	47µF	20%	16V	C3368	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3095	1-128-359-11	ELECT CHIP	100µF	20%	10V	C3369	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3096	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3370	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3097	1-128-359-11	ELECT CHIP	100µF	20%	10V	C3371	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3098	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3372	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3101	1-162-925-11	CERAMIC CHIP	68pF	5%	50V	C3374	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3102	1-162-925-11	CERAMIC CHIP	68pF	5%	50V	C3375	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3103	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3376	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3301	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3377	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3302	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3378	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3303	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3379	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3304	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3401	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3305	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3402	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3307	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3308	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3404	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3309	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3405	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3313	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3406	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3314	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3407	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3315	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3408	1-126-392-11	ELECT CHIP	100µF	20%	6.3V
C3316	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3409	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3317	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3410	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3318	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3411	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3319	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3412	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3325	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3413	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3414	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3329	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3415	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3333	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3334	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3417	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3335	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3418	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3337	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3419	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3341	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3420	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3343	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3421	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3349	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3350	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3423	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3351	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3424	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3357	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3425	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3426	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3476	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3428	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3477	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3429	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3478	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3430	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3479	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3431	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3480	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3432	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3481	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3433	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3482	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3434	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3483	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3435	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3484	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3436	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3485	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3437	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3486	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3438	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3487	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3439	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3488	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3489	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3490	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3442	1-126-394-11	ELECT CHIP	10μF	20%	16V	C3491	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3443	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3492	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3444	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3493	1-126-396-11	ELECT CHIP	47μF	20%	16V
C3445	1-126-396-11	ELECT CHIP	47μF	20%	16V	C3494	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3446	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3495	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3447	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3496	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3448	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3499	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3449	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3500	1-126-392-11	ELECT CHIP	100μF	20%	6.3V
C3450	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3501	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3452	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3601	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3453	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3602	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3454	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3604	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3455	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3605	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3456	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3606	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3457	1-126-394-11	ELECT CHIP	10μF	20%	16V	C3607	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3458	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3608	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C3610	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3462	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3611	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3463	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3612	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3464	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3613	1-126-392-11	ELECT CHIP	100μF	20%	6.3V
C3465	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3614	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3466	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3615	1-126-394-11	ELECT CHIP	10μF	20%	16V
C3467	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3617	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3468	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3618	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V
C3469	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3619	1-126-392-11	ELECT CHIP	100μF	20%	6.3V
C3470	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3620	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3473	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3622	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3474	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3623	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3475	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3624	1-164-156-11	CERAMIC CHIP	0.1μF		25V

B

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3625	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C3626	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3627	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3628	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3629	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3630	1-126-394-11	ELECT CHIP	10µF	20%	16V
C3906	1-126-396-11	ELECT CHIP	47µF	20%	16V
C3912	1-126-206-11	ELECT CHIP	100µF	20%	6.3V

CONNECTOR

	REF. NO.	PART NO.	DESCRIPTION	VALUES
*	CN2803	1-564-508-11	PLUG, CONNECTOR	5P
*	CN2805	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P
*	CN3601	1-816-070-21	CONNECTOR, BOARD TO BOARD	60P
*	CN3603	1-815-177-12	PIN, CONNECTOR(WITH SHIELD)	22P

DIODE

REF. NO.	PART NO.	DESCRIPTION	VALUES
D2803	8-719-404-50	DIODE	MA111-TX
D2806	8-719-069-55	DIODE	UDZSTE-175.6B
D3001	8-719-404-50	DIODE	MA111-TX
D3002	8-719-083-58	DIODE	UDZSTE-173.9B
D3089	8-719-800-76	DIODE	1SS226
D3090	8-719-800-76	DIODE	1SS226
D3401	8-719-914-43	DIODE	DAN202K
D3402	8-719-914-44	DIODE	DAP202K
D3403	8-719-978-33	DIODE	DTZ-TT11-6.8B
D3404	8-719-404-50	DIODE	MA111-TX
D3601	8-719-800-76	DIODE	1SS226
D3603	8-719-083-58	DIODE	UDZSTE-173.9B

FERRITE BEAD

REF. NO.	PART NO.	DESCRIPTION	VALUES		
FB3001	1-500-451-11	FERRITE	0µH		
FB3002	1-216-864-11	SHORT CHIP			
FB3303	1-216-809-11	METAL CHIP	100	5%	1/10W
FB3304	1-469-110-21	FERRITE	0µH		
FB3401	1-414-235-22	FERRITE	0µH		
FB3402	1-414-235-22	FERRITE	0µH		
FB3403	1-216-864-11	SHORT CHIP			
FB3601	1-414-228-11	FERRITE	0µH		
FB3602	1-414-228-11	FERRITE	0µH		
FB3608	1-469-568-21	FERRITE	0µH		

REF. NO.	PART NO.	DESCRIPTION	VALUES
FB3609	1-414-921-11	FERRITE	0µH
FB3610	1-414-921-11	FERRITE	0µH
FB3611	1-414-921-11	FERRITE	0µH
FB3612	1-414-921-11	FERRITE	0µH
FB3623	1-414-228-11	FERRITE	0µH
FB3624	1-216-864-11	SHORT CHIP	

FILTER

REF. NO.	PART NO.	DESCRIPTION	VALUES
FL3001	1-234-177-21	FERRITE	0µH
FL3002	1-234-177-21	FERRITE	0µH
FL3003	1-781-924-21	FILTER, LOW PASS (SMD)	
FL3301	1-234-558-21	FILTER, LOW PASS	
FL3302	1-234-557-21	FILTER, LOW PASS	
FL3303	1-234-557-21	FILTER, LOW PASS	
FL3401	1-781-923-21	FILTER, LOW PASS (SMD)	
FL3602	1-234-494-21	FILTER, EMI REMOVAL (SMD)	

IC

REF. NO.	PART NO.	DESCRIPTION	VALUES
IC2801	8-752-102-68	IC	CXA2170Q
IC3002	8-759-583-47	IC	UPC2933T-E2
IC3003	6-701-892-01	IC	TC90A90F(BH,DRY)
IC3004	8-759-642-22	IC	UPC29M05T-E2
IC3089	8-759-682-41	IC	M24C32-WMN6T(A)
IC3090	6-801-376-01	IC	MB94918RpF-G-147-BND
IC3091	8-759-352-91	IC	PST9143NL
IC3301	8-759-663-74	IC	HY57V161610DTC-7TR
IC3302	6-700-398-01	IC	UPC2918T-E1
IC3303	8-752-409-78	IC	CXD2095AQ
IC3306	8-759-669-78	IC	TLC2933IPWR-12
IC3401	6-700-399-01	IC	UPC2925T-E1
IC3402	8-759-677-37	IC	MT48LC2M32B2TG-7
IC3403	8-759-460-29	IC	PST9120NL
IC3404	8-759-669-75	IC	TLC2932IPWR
IC3405	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3406	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3407	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3408	8-759-672-57	IC	CXD9509AQ
IC3409	8-759-833-72	IC	NJM2870F25-TE2
IC3410	8-752-409-20	IC	CXD2309AQ
IC3411	8-759-082-57	IC	TC7W04FU
IC3413	6-700-205-01	IC	TC74LVX157FT(EL)
IC3414	8-759-548-56	IC	M52055FP
IC3601	8-759-592-50	IC	TC7SZ126FU(TE85R)

REF. NO.	PART NO.	DESCRIPTION	VALUES		REF. NO.	PART NO.	DESCRIPTION	VALUES
IC3602	8-759-592-49	IC	TC7SZ125FU(TE85R)		L3604	1-419-370-21	INDUCTOR	0µH
IC3603	8-759-639-85	IC	SN65LVDS31DR		L3605	1-419-370-21	INDUCTOR	0µH
IC3604	6-701-762-11	IC	DS90LV018ATMX		L3903	1-412-052-21	INDUCTOR	1µH
IC3605	8-759-698-08	IC	SN74CBTLV1G125DCKR					
IC3607	8-759-592-49	IC	TC7SZ125FU(TE85R)			**TRANSISTOR**		
IC3608	8-759-669-75	IC	TLC2932IPWR		Q2801	8-729-122-63	TRANSISTOR	2SA1226-E4
IC3609	8-759-828-44	IC	NJM2870F33(TE2)		Q2802	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
					Q2803	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
					Q2804	8-729-422-27	TRANSISTOR	2SD601A-Q
	COIL				Q2805	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L2801	1-469-555-21	INDUCTOR	10µH		Q2806	8-729-422-27	TRANSISTOR	2SD601A-Q
L2803	1-469-555-21	INDUCTOR	10µH		Q2807	8-729-422-27	TRANSISTOR	2SD601A-Q
L2804	1-469-555-21	INDUCTOR	10µH		Q2811	8-729-122-63	TRANSISTOR	2SA1226-E4
L2805	1-469-555-21	INDUCTOR	10µH		Q2812	8-729-122-63	TRANSISTOR	2SA1226-E4
L2806	1-469-555-21	INDUCTOR	10µH		Q2813	8-729-122-63	TRANSISTOR	2SA1226-E4
L2807	1-469-555-21	INDUCTOR	10µH		Q2818	8-729-422-27	TRANSISTOR	2SD601A-Q
L2811	1-469-555-21	INDUCTOR	10µH		Q2819	8-729-422-27	TRANSISTOR	2SD601A-Q
L3001	1-216-295-91	SHORT CHIP			Q2820	8-729-422-27	TRANSISTOR	2SD601A-Q
L3004	1-412-026-11	INDUCTOR	1µH		Q2821	8-729-422-27	TRANSISTOR	2SD601A-Q
L3005	1-412-026-11	INDUCTOR	1µH		Q2822	8-729-422-27	TRANSISTOR	2SD601A-Q
L3007	1-469-555-21	INDUCTOR	10µH		Q2823	8-729-422-27	TRANSISTOR	2SD601A-Q
L3009	1-469-555-21	INDUCTOR	10µH		Q3003	8-729-422-27	TRANSISTOR	2SD601A-Q
L3010	1-469-555-21	INDUCTOR	10µH		Q3005	8-729-422-27	TRANSISTOR	2SD601A-Q
L3011	1-469-555-21	INDUCTOR	10µH		Q3006	8-729-422-27	TRANSISTOR	2SD601A-Q
L3089	1-414-233-22	FERRITE	0µH		Q3007	8-729-422-27	TRANSISTOR	2SD601A-Q
L3102	1-469-552-21	INDUCTOR	3.3µH		Q3008	8-729-422-27	TRANSISTOR	2SD601A-Q
L3304	1-469-555-21	INDUCTOR	10µH		Q3009	8-729-422-27	TRANSISTOR	2SD601A-Q
L3310	1-469-561-21	INDUCTOR	100µH		Q3089	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L3311	1-469-561-21	INDUCTOR	100µH		Q3090	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L3402	1-412-052-21	INDUCTOR	1µH		Q3092	8-729-422-27	TRANSISTOR	2SD601A-Q
L3403	1-469-561-21	INDUCTOR	100µH		Q3093	8-729-422-27	TRANSISTOR	2SD601A-Q
L3404	1-469-561-21	INDUCTOR	100µH		Q3302	8-729-422-27	TRANSISTOR	2SD601A-Q
L3405	1-469-555-21	INDUCTOR	10µH		Q3303	8-729-422-27	TRANSISTOR	2SD601A-Q
L3406	1-469-555-21	INDUCTOR	10µH		Q3305	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L3407	1-469-555-21	INDUCTOR	10µH		Q3306	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L3409	1-469-555-21	INDUCTOR	10µH		Q3307	8-729-422-27	TRANSISTOR	2SD601A-Q
L3411	1-412-058-11	INDUCTOR	10µH		Q3308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L3412	1-469-555-21	INDUCTOR	10µH		Q3309	8-729-422-27	TRANSISTOR	2SD601A-Q
L3413	1-469-555-21	INDUCTOR	10µH		Q3310	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
L3414	1-469-555-21	INDUCTOR	10µH		Q3311	8-729-422-27	TRANSISTOR	2SD601A-Q
L3416	1-469-555-21	INDUCTOR	10µH		Q3401	8-729-422-27	TRANSISTOR	2SD601A-Q
L3418	1-469-555-21	INDUCTOR	10µH		Q3402	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
L3601	1-419-370-21	INDUCTOR	0µH		Q3403	8-729-422-27	TRANSISTOR	2SD601A-Q
L3602	1-419-370-21	INDUCTOR	0µH		Q3404	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
L3603	1-419-370-21	INDUCTOR	0µH					

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q3405	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2832	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3406	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2833	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3407	8-729-422-27	TRANSISTOR	2SD601A-Q			R2834	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3408	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2835	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3409	8-729-422-27	TRANSISTOR	2SD601A-Q			R2836	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3410	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2837	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3411	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2838	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3412	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2839	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3413	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2840	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3414	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2841	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3415	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX			R2842	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3416	8-729-422-27	TRANSISTOR	2SD601A-Q			R2843	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3601	8-729-422-27	TRANSISTOR	2SD601A-Q			R2844	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
						R2845	1-216-809-11	METAL CHIP	100	5%	1/10W
						R2846	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
		RESISTOR									
						R2847	1-216-809-11	METAL CHIP	100	5%	1/10W
R2801	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W	R2848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2803	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2849	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2804	1-216-805-11	METAL CHIP	47	5%	1/10W	R2850	1-216-809-11	METAL CHIP	100	5%	1/10W
R2805	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R2851	1-216-815-11	METAL CHIP	330	5%	1/10W
R2806	1-216-863-11	METAL CHIP	3.3M	5%	1/10W						
						R2854	1-216-864-11	SHORT CHIP			
R2807	1-216-809-11	METAL CHIP	100	5%	1/10W	R2858	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2808	1-216-834-11	METAL CHIP	12K	5%	1/10W	R2860	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2809	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2861	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2810	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2862	1-216-809-11	METAL CHIP	100	5%	1/10W
R2811	1-216-809-11	METAL CHIP	100	5%	1/10W						
						R2865	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2812	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R2866	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2813	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2867	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2815	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2868	1-216-809-11	METAL CHIP	100	5%	1/10W
R2816	1-216-845-11	METAL CHIP	100K	5%	1/10W	R2869	1-216-809-11	METAL CHIP	100	5%	1/10W
R2817	1-216-809-11	METAL CHIP	100	5%	1/10W						
						R2870	1-216-809-11	METAL CHIP	100	5%	1/10W
R2818	1-216-809-11	METAL CHIP	100	5%	1/10W	R2880	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2819	1-216-809-11	METAL CHIP	100	5%	1/10W	R2881	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2820	1-216-809-11	METAL CHIP	100	5%	1/10W	R2883	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2821	1-216-809-11	METAL CHIP	100	5%	1/10W	R2884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2823	1-216-841-11	METAL CHIP	47K	5%	1/10W						
						R2885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2824	1-216-809-11	METAL CHIP	100	5%	1/10W	R2886	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2825	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2826	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R2889	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2827	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2828	1-216-832-11	METAL CHIP	8.2K	5%	1/10W						
						R2891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2830	1-216-818-11	METAL CHIP	560	5%	1/10W	R2893	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3049	1-216-859-11	METAL CHIP	1.5M	5%	1/10W
R2896	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2897	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3051	1-216-864-11	SHORT CHIP			
R2898	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3056	1-216-817-11	METAL CHIP	470	5%	1/10W
R2899	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R3057	1-216-817-11	METAL CHIP	470	5%	1/10W
R2900	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3058	1-216-817-11	METAL CHIP	470	5%	1/10W
R2901	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3059	1-216-809-11	METAL CHIP	100	5%	1/10W
R2902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3060	1-216-809-11	METAL CHIP	100	5%	1/10W
R2907	1-216-807-11	METAL CHIP	68	5%	1/10W	R3061	1-216-809-11	METAL CHIP	100	5%	1/10W
R2908	1-216-807-11	METAL CHIP	68	5%	1/10W	R3063	1-216-864-11	SHORT CHIP			
R2909	1-216-807-11	METAL CHIP	68	5%	1/10W	R3064	1-216-864-11	SHORT CHIP			
R2911	1-216-864-11	SHORT CHIP				R3066	1-216-809-11	METAL CHIP	100	5%	1/10W
R2913	1-216-864-11	SHORT CHIP				R3068	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2919	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R3069	1-216-820-11	METAL CHIP	820	5%	1/10W
R2920	1-216-864-11	SHORT CHIP				R3070	1-216-864-11	SHORT CHIP			
R2921	1-216-864-11	SHORT CHIP				R3071	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2922	1-216-864-11	SHORT CHIP				R3072	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3002	1-216-864-11	SHORT CHIP				R3073	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3004	1-216-864-11	SHORT CHIP				R3074	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3013	1-216-809-11	METAL CHIP	100	5%	1/10W	R3075	1-216-801-11	METAL CHIP	22	5%	1/10W
R3014	1-216-809-11	METAL CHIP	100	5%	1/10W	R3076	1-216-864-11	SHORT CHIP			
R3015	1-216-809-11	METAL CHIP	100	5%	1/10W	R3077	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3017	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3078	1-216-815-11	METAL CHIP	330	5%	1/10W
R3020	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3079	1-216-815-11	METAL CHIP	330	5%	1/10W
R3021	1-216-809-11	METAL CHIP	100	5%	1/10W	R3089	1-216-864-11	SHORT CHIP			
R3022	1-216-809-11	METAL CHIP	100	5%	1/10W	R3091	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3023	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3092	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3025	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3093	1-216-864-11	SHORT CHIP			
R3026	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3095	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3029	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3096	1-216-817-11	METAL CHIP	470	5%	1/10W
R3030	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3097	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3031	1-216-809-11	METAL CHIP	100	5%	1/10W	R3098	1-216-805-11	METAL CHIP	47	5%	1/10W
R3032	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3099	1-216-805-11	METAL CHIP	47	5%	1/10W
R3033	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3100	1-216-809-11	METAL CHIP	100	5%	1/10W
R3034	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3101	1-216-809-11	METAL CHIP	100	5%	1/10W
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W	R3102	1-216-809-11	METAL CHIP	100	5%	1/10W
R3036	1-216-809-11	METAL CHIP	100	5%	1/10W	R3103	1-216-809-11	METAL CHIP	100	5%	1/10W
R3037	1-216-809-11	METAL CHIP	100	5%	1/10W	R3104	1-216-809-11	METAL CHIP	100	5%	1/10W
R3038	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R3105	1-216-809-11	METAL CHIP	100	5%	1/10W
R3039	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R3107	1-216-864-11	SHORT CHIP			
R3040	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R3108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3043	1-216-864-11	SHORT CHIP				R3110	1-216-809-11	METAL CHIP	100	5%	1/10W
R3045	1-216-809-11	METAL CHIP	100	5%	1/10W	R3111	1-216-809-11	METAL CHIP	100	5%	1/10W
R3047	1-216-864-11	SHORT CHIP				R3116	1-216-797-11	METAL CHIP	10	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3117	1-216-797-11	METAL CHIP	10	5%	1/10W	R3380	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3150	1-216-864-11	SHORT CHIP				R3381	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3302	1-216-817-11	METAL CHIP	470	5%	1/10W	R3382	1-216-864-11	SHORT CHIP			
R3303	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R3383	1-216-817-11	METAL CHIP	470	5%	1/10W
R3304	1-216-809-11	METAL CHIP	100	5%	1/10W	R3384	1-216-864-11	SHORT CHIP			
R3323	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3385	1-216-864-11	SHORT CHIP			
R3324	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3386	1-216-864-11	SHORT CHIP			
R3325	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3387	1-216-864-11	SHORT CHIP			
R3326	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3388	1-216-864-11	SHORT CHIP			
R3335	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3389	1-216-864-11	SHORT CHIP			
R3341	1-216-813-11	METAL CHIP	220	5%	1/10W	R3390	1-216-864-11	SHORT CHIP			
R3342	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W	R3391	1-216-864-11	SHORT CHIP			
R3343	1-216-809-11	METAL CHIP	100	5%	1/10W	R3392	1-216-864-11	SHORT CHIP			
R3344	1-216-853-11	METAL CHIP	470K	5%	1/10W	R3393	1-216-864-11	SHORT CHIP			
						R3394	1-216-864-11	SHORT CHIP			
R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W						
R3346	1-216-809-11	METAL CHIP	100	5%	1/10W	R3400	1-216-864-11	SHORT CHIP			
R3347	1-216-815-11	METAL CHIP	330	5%	1/10W	R3401	1-216-864-11	SHORT CHIP			
R3348	1-216-864-11	SHORT CHIP				R3406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/10W	R3407	1-216-864-11	SHORT CHIP			
						R3409	1-216-864-11	SHORT CHIP			
R3350	1-216-814-11	METAL CHIP	270	5%	1/10W						
R3351	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3352	1-216-853-11	METAL CHIP	470K	5%	1/10W	R3411	1-216-797-11	METAL CHIP	10	5%	1/10W
R3353	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3421	1-216-864-11	SHORT CHIP			
R3354	1-216-813-11	METAL CHIP	220	5%	1/10W	R3422	1-216-864-11	SHORT CHIP			
						R3423	1-216-813-11	METAL CHIP	220	5%	1/10W
R3355	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R3357	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R3425	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R3358	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R3426	1-216-809-11	METAL CHIP	100	5%	1/10W
R3359	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R3428	1-469-094-21	FERRITE	0μH		
R3360	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3429	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
						R3432	1-216-815-11	METAL CHIP	330	5%	1/10W
R3364	1-216-864-11	SHORT CHIP									
R3365	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3434	1-216-809-11	METAL CHIP	100	5%	1/10W
R3366	1-216-864-11	SHORT CHIP				R3435	1-216-809-11	METAL CHIP	100	5%	1/10W
R3367	1-216-805-11	METAL CHIP	47	5%	1/10W	R3436	1-216-809-11	METAL CHIP	100	5%	1/10W
R3369	1-216-864-11	SHORT CHIP				R3437	1-216-809-11	METAL CHIP	100	5%	1/10W
						R3438	1-216-809-11	METAL CHIP	100	5%	1/10W
R3370	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R3371	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R3439	1-216-809-11	METAL CHIP	100	5%	1/10W
R3372	1-216-817-11	METAL CHIP	470	5%	1/10W	R3440	1-216-809-11	METAL CHIP	100	5%	1/10W
R3373	1-216-817-11	METAL CHIP	470	5%	1/10W	R3441	1-216-809-11	METAL CHIP	100	5%	1/10W
R3374	1-216-809-11	METAL CHIP	100	5%	1/10W	R3442	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R3445	1-216-864-11	SHORT CHIP			
R3375	1-218-686-11	METAL CHIP	560	0.50%	1/10W						
R3376	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R3446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3377	1-216-817-11	METAL CHIP	470	5%	1/10W	R3447	1-216-819-11	METAL CHIP	680	5%	1/10W
R3378	1-216-817-11	METAL CHIP	470	5%	1/10W	R3448	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3379	1-216-809-11	METAL CHIP	100	5%	1/10W	R3451	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3452	1-216-864-11	SHORT CHIP				R3510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3454	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3457	1-216-813-11	METAL CHIP	220	5%	1/10W	R3512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3460	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3533	1-216-809-11	METAL CHIP	100	5%	1/10W
R3461	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3535	1-216-809-11	METAL CHIP	100	5%	1/10W
R3464	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3536	1-216-864-11	SHORT CHIP			
R3465	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3537	1-216-864-11	SHORT CHIP			
R3466	1-216-813-11	METAL CHIP	220	5%	1/10W	R3601	1-216-864-11	SHORT CHIP			
R3467	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3602	1-216-864-11	SHORT CHIP			
R3468	1-216-864-11	SHORT CHIP				R3603	1-216-864-11	SHORT CHIP			
R3469	1-216-864-11	SHORT CHIP				R3604	1-216-864-11	SHORT CHIP			
R3470	1-216-809-11	METAL CHIP	100	5%	1/10W	R3605	1-216-864-11	SHORT CHIP			
R3471	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3606	1-216-864-11	SHORT CHIP			
R3472	1-216-801-11	METAL CHIP	22	5%	1/10W	R3607	1-216-864-11	SHORT CHIP			
R3473	1-216-864-11	SHORT CHIP				R3608	1-216-864-11	SHORT CHIP			
R3475	1-216-809-11	METAL CHIP	100	5%	1/10W	R3609	1-216-864-11	SHORT CHIP			
R3476	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3610	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3477	1-216-809-11	METAL CHIP	100	5%	1/10W	R3611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3478	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3612	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3480	1-216-809-11	METAL CHIP	100	5%	1/10W	R3613	1-216-801-11	METAL CHIP	22	5%	1/10W
R3483	1-216-809-11	METAL CHIP	100	5%	1/10W	R3614	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3484	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3615	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R3485	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3616	1-216-809-11	METAL CHIP	100	5%	1/10W
R3486	1-216-801-11	METAL CHIP	22	5%	1/10W	R3618	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3489	1-216-864-11	SHORT CHIP				R3800	1-216-864-11	SHORT CHIP			
R3490	1-216-864-11	SHORT CHIP				R3802	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3491	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3803	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3492	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3804	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3493	1-216-809-11	METAL CHIP	100	5%	1/10W	R3805	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3494	1-216-813-11	METAL CHIP	220	5%	1/10W	R3807	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3495	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3808	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3496	1-216-801-11	METAL CHIP	22	5%	1/10W	R3809	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3497	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3810	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3498	1-216-818-11	METAL CHIP	560	5%	1/10W	R3811	1-216-809-11	METAL CHIP	100	5%	1/10W
R3499	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3812	1-216-809-11	METAL CHIP	100	5%	1/10W
R3501	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3813	1-216-809-11	METAL CHIP	100	5%	1/10W
R3502	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3814	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3503	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3815	1-218-648-11	METAL CHIP	15	0.50%	1/10W
R3504	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3816	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3505	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3817	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3506	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3820	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3507	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3821	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3508	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3822	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3509	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3823	1-216-826-11	METAL CHIP	2.7K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3824	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R3956	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3825	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R3957	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3826	1-216-809-11	METAL CHIP	100	5%	1/10W	R3958	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3828	1-218-682-11	METAL CHIP	390	0.50%	1/10W	R3975	1-216-864-11	SHORT CHIP			
R3829	1-218-682-11	METAL CHIP	390	0.50%	1/10W	R3976	1-216-864-11	SHORT CHIP			
R3830	1-218-682-11	METAL CHIP	390	0.50%	1/10W	R3977	1-216-864-11	SHORT CHIP			
R3831	1-216-864-11	SHORT CHIP				R3978	1-216-864-11	SHORT CHIP			
R3832	1-216-864-11	SHORT CHIP				R3979	1-216-864-11	SHORT CHIP			
R3833	1-216-864-11	SHORT CHIP				R3980	1-216-864-11	SHORT CHIP			
R3834	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3981	1-216-864-11	SHORT CHIP			
R3835	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3982	1-216-864-11	SHORT CHIP			
R3836	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3983	1-216-864-11	SHORT CHIP			
R3837	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3984	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3838	1-218-678-11	METAL CHIP	270	0.50%	1/10W	R3985	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3839	1-218-670-11	METAL CHIP	120	0.50%	1/10W	R3986	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3840	1-216-805-11	METAL CHIP	47	5%	1/10W						
R3841	1-218-670-11	METAL CHIP	120	0.50%	1/10W						
R3842	1-218-689-11	METAL CHIP	750	0.50%	1/10W			**RESISTOR BRIDGE**			
R3846	1-216-801-11	METAL CHIP	22	5%	1/10W						
R3847	1-216-801-11	METAL CHIP	22	5%	1/10W	RB3001	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
						RB3002	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	RB3003	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3849	1-218-675-11	METAL CHIP	200	0.50%	1/10W	RB3004	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3850	1-218-675-11	METAL CHIP	200	0.50%	1/10W	RB3011	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3851	1-216-809-11	METAL CHIP	100	5%	1/10W						
R3852	1-218-675-11	METAL CHIP	200	0.50%	1/10W	RB3013	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
						RB3014	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3854	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	RB3015	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3857	1-216-809-11	METAL CHIP	100	5%	1/10W	RB3100	1-233-574-11	RES, CHIP NETWORK	10		
R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W	RB3101	1-233-574-11	RES, CHIP NETWORK	10		
R3862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	RB3102	1-233-574-11	RES, CHIP NETWORK	10		
						RB3103	1-233-574-11	RES, CHIP NETWORK	10		
R3864	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	RB3304	1-233-576-11	RES, CHIP NETWORK	100		
R3865	1-216-809-11	METAL CHIP	100	5%	1/10W	RB3305	1-233-576-11	RES, CHIP NETWORK	100		
R3866	1-414-234-22	FERRITE	0μH			RB3306	1-233-576-11	RES, CHIP NETWORK	100		
R3867	1-414-234-22	FERRITE	0μH								
R3868	1-414-234-22	FERRITE	0μH			RB3307	1-233-576-11	RES, CHIP NETWORK	100		
						RB3401	1-234-524-21	RES, CHIP NETWORK	33		
R3881	1-216-807-11	METAL CHIP	68	5%	1/10W	RB3402	1-234-524-21	RES, CHIP NETWORK	33		
R3882	1-216-807-11	METAL CHIP	68	5%	1/10W	RB3403	1-234-524-21	RES, CHIP NETWORK	33		
R3883	1-216-807-11	METAL CHIP	68	5%	1/10W	RB3404	1-234-524-21	RES, CHIP NETWORK	33		
R3911	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R3933	1-216-864-11	SHORT CHIP				RB3405	1-234-524-21	RES, CHIP NETWORK	33		
						RB3406	1-234-524-21	RES, CHIP NETWORK	33		
R3937	1-216-809-11	METAL CHIP	100	5%	1/10W	RB3407	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3953	1-216-821-11	METAL CHIP	1K	5%	1/10W	RB3408	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3954	1-216-821-11	METAL CHIP	1K	5%	1/10W	RB3409	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
R3955	1-216-821-11	METAL CHIP	1K	5%	1/10W						

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

B A

REF. NO.	PART NO.	DESCRIPTION	VALUES		
RB3410	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
RB3411	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
RB3412	1-239-409-11	NETWORK RESISTOR(CHIP)	47		
RB3421	1-233-576-11	RES, CHIP NETWORK	100		
RB3422	1-233-576-11	RES, CHIP NETWORK	100		
RB3423	1-233-576-11	RES, CHIP NETWORK	100		
RB3424	1-233-576-11	RES, CHIP NETWORK	100		
RB3425	1-233-576-11	RES, CHIP NETWORK	100		
RB3426	1-233-576-11	RES, CHIP NETWORK	100		
RB3427	1-233-576-11	RES, CHIP NETWORK	100		
RB3428	1-233-576-11	RES, CHIP NETWORK	100		
RB3436	1-234-523-21	RES, CHIP NETWORK	0	(3216)	
RB3437	1-234-523-21	RES, CHIP NETWORK	0	(3216)	
RB3438	1-234-523-21	RES, CHIP NETWORK	0	(3216)	
RB3439	1-234-523-21	RES, CHIP NETWORK	0	(3216)	

CRYSTAL

REF. NO.	PART NO.	DESCRIPTION		
X2801	1-760-895-21	VIBRATOR, CERAMIC		
X3089	1-781-945-21	VIBRATOR, CERAMIC		
X3401	1-781-887-21	VIBRATOR, CRYSTAL		

A

REF. NO.	PART NO.	DESCRIPTION			
*	A-1300-326-A	A BOARD, COMPLETE			
	(All except KV-34DRC510(S)/38DRC510(S))				
	A-1300-537-A	A BOARD, COMPLETE			
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
	4-382-854-01	SCREW (M3X8), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C501	1-165-529-11	MYLAR	0.22µF	10%	275V
C502	1-127-798-51	CERAMIC	4700pF	20%	250V
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
⚠ C503	1-165-529-11	MYLAR	0.22µF	10%	275V
	(All except KV-34DRC510(S)/38DRC510(S)				
⚠ C503	1-165-530-21	MYLAR	0.47µF	10%	0V
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
C504	1-126-961-11	ELECT	2.2µF	20%	50V
⚠ C505	1-127-794-51	CERAMIC	2200pF	20%	250V
C506	1-126-971-11	ELECT	470µF	20%	50V
C507	1-126-943-11	ELECT	2200µF	20%	25V
⚠ C508	1-127-794-51	CERAMIC	2200pF	20%	250V
C510	1-164-156-11	CERAMIC CHIP	0.1µF		25V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
⚠ C512	1-165-530-21	MYLAR	0.47µF	10%	0V
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
⚠ C512	1-165-529-11	MYLAR	0.22µF	10%	275V
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
C513	1-126-961-11	ELECT	2.2µF	20%	50V
C514	1-126-960-11	ELECT	1µF	20%	50V
C515	1-126-947-11	ELECT	47µF	20%	35V
C516	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C517	1-104-665-11	ELECT	100µF	20%	25V
C518	1-126-967-11	ELECT	47µF	20%	50V
C519	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C520	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C521	1-104-665-11	ELECT	100µF	20%	25V
C522	1-126-964-11	ELECT	10µF	20%	50V
C523	1-104-665-11	ELECT	100µF	20%	25V
C524	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C525	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C526	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C527	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C528	1-126-933-11	ELECT	100µF	20%	16V
C530	1-126-941-11	ELECT	470µF	20%	25V
C531	1-130-495-00	MYLAR	0.1µF	5%	50V
C533	1-130-495-00	MYLAR	0.1µF	5%	50V
C535	1-115-156-11	CERAMIC CHIP	1µF		10V
C536	1-126-933-11	ELECT	100µF	20%	16V
C537	1-126-941-11	ELECT	470µF	20%	25V
C538	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C540	1-126-767-11	ELECT	1000µF	20%	16V
C541	1-162-961-11	CERAMIC CHIP	330pF	10%	50V
C542	1-126-941-11	ELECT	470µF	20%	25V
C547	1-126-767-11	ELECT	1000µF	20%	16V
C548	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C549	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C550	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C551	1-126-933-11	ELECT	100µF	20%	16V
C553	1-126-767-11	ELECT	1000µF	20%	16V
C554	1-126-933-11	ELECT	100µF	20%	16V
C555	1-126-933-11	ELECT	100µF	20%	16V
C556	1-126-767-11	ELECT	1000µF	20%	16V
C558	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C559	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C560	1-126-935-11	ELECT	470µF	20%	16V
C561	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C562	1-126-964-11	ELECT	10µF	20%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES		
C563	1-126-947-11	ELECT	47μF	20%	35V		C903	1-104-666-11	ELECT	220μF	20%	25V
C564	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V		C909	1-136-177-00	FILM	1μF	5%	50V
C565	1-115-156-11	CERAMIC CHIP	1μF		10V		C912	1-136-177-00	FILM	1μF	5%	50V
C566	1-162-961-11	CERAMIC CHIP	330pF	10%	50V		C915	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C567	1-165-176-11	CERAMIC CHIP	0.047μF	10%	16V		C918	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C569	1-126-767-11	ELECT	1000μF	20%	16V		C921	1-164-677-11	CERAMIC CHIP	0.033μF	10%	16V
C570	1-130-495-00	MYLAR	0.1μF	5%	50V		C924	1-164-677-11	CERAMIC CHIP	0.033μF	10%	16V
C571	1-130-495-00	MYLAR	0.1μF	5%	50V		C927	1-136-171-00	FILM	0.33μF	5%	50V
C574	1-126-960-11	ELECT	1μF	20%	50V		C930	1-164-388-91	CERAMIC CHIP	270pF	5%	50V
C577	1-126-960-11	ELECT	1μF	20%	50V		C933	1-130-495-00	MYLAR	0.1μF	5%	50V
C578	1-126-964-11	ELECT	10μF	20%	50V		C939	1-126-933-11	ELECT	100μF	20%	16V
C579	1-126-964-11	ELECT	10μF	20%	50V		C942	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C580	1-126-964-11	ELECT	10μF	20%	50V		C945	1-126-933-11	ELECT	100μF	20%	16V
C582	1-130-495-00	MYLAR	0.1μF	5%	50V							
C583	1-126-960-11	ELECT	1μF	20%	50V							
									CONNECTOR			
C584	1-126-960-11	ELECT	1μF	20%	50V		CN501	1-695-915-11	TAB (CONTACT)			
C585	1-126-960-11	ELECT	1μF	20%	50V	*	CN503	1-580-843-11	PIN, CONNECTOR (POWER)			
C586	1-130-495-00	MYLAR	0.1μF	5%	50V	*	CN504	1-766-241-11	PIN, CONNECTOR (PC BOARD)			
C587	1-126-960-11	ELECT	1μF	20%	50V	*	CN505	1-766-241-11	PIN, CONNECTOR (PC BOARD)			
C588	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	*	CN506	1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P		
C589	1-130-495-00	MYLAR	0.1μF	5%	50V		CN507	1-764-812-11	CONNECTOR, BOARD TO BOARD	11P		
C590	1-126-953-11	ELECT	2200μF	20%	35V	*	CN508	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P		
C591	1-126-935-11	ELECT	470μF	20%	16V	*	CN509	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P		
C592	1-126-935-11	ELECT	470μF	20%	16V		CN510	1-793-494-11	CONNECTOR, BOARD TO BOARD	40P		
C593	1-126-935-11	ELECT	470μF	20%	16V	*	CN512	1-564-508-11	PLUG, CONNECTOR	5P		
C594	1-126-935-11	ELECT	470μF	20%	16V	*	CN514	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P		
C595	1-104-666-11	ELECT	220μF	20%	25V		CN515	1-695-915-11	TAB (CONTACT)			
C596	1-104-666-11	ELECT	220μF	20%	25V		CN516	1-695-915-11	TAB (CONTACT)			
C597	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V		CN517	1-695-915-11	TAB (CONTACT)			
C598	1-130-495-00	MYLAR	0.1μF	5%	50V		CN518	1-695-915-11	TAB (CONTACT)			
C599	1-126-953-11	ELECT	2200μF	20%	35V		CN519	1-695-915-11	TAB (CONTACT)			
C601	1-164-156-11	CERAMIC CHIP	0.1μF		25V		CN520	1-695-915-11	TAB (CONTACT)			
C604	1-164-156-11	CERAMIC CHIP	0.1μF		25V	*	CN521	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P		
C606	1-130-495-00	MYLAR	0.1μF	5%	50V	*	CN524	1-564-515-11	PLUG, CONNECTOR	12P		
C607	1-130-495-00	MYLAR	0.1μF	5%	50V	*	CN526	1-564-508-11	PLUG, CONNECTOR	5P		
C608	1-130-495-00	MYLAR	0.1μF	5%	50V	*	CN527	1-564-511-61	PLUG, CONNECTOR	8P		
C609	1-126-942-61	ELECT	1000μF	20%	25V	*	CN528	1-564-507-11	PLUG, CONNECTOR	4P		
C610	1-126-942-61	ELECT	1000μF	20%	25V	*	CN900	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P		
C611	1-130-495-00	MYLAR	0.1μF	5%	50V	*	CN903	1-564-506-11	PLUG, CONNECTOR	3P		
C612	1-126-953-11	ELECT	2200μF	20%	35V							
									DIODE			
C613	1-126-953-11	ELECT	2200μF	20%	35V							
C900	1-104-666-11	ELECT	220μF	20%	25V		D501	8-719-991-33	DIODE	1SS133T-77		
C901	1-126-939-11	ELECT	10000μF	20%	16V		D502	8-719-991-33	DIODE	1SS133T-77		
C902	1-126-947-11	ELECT	47μF	20%	35V		D503	8-719-511-40	DIODE	S1VB40		

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REF. NO.	PART NO.	DESCRIPTION	VALUES	
D504	8-719-991-33	DIODE	1SS133T-77	
D505	8-719-991-33	DIODE	1SS133T-77	
D508	8-719-991-33	DIODE	1SS133T-77	
D509	8-719-991-33	DIODE	1SS133T-77	
D510	8-719-991-33	DIODE	1SS133T-77	
D511	8-719-991-33	DIODE	1SS133T-77	
D512	8-719-991-33	DIODE	1SS133T-77	
D513	8-719-991-33	DIODE	1SS133T-77	
D514	8-719-991-33	DIODE	1SS133T-77	
D515	8-719-991-33	DIODE	1SS133T-77	
D516	8-719-991-33	DIODE	1SS133T-77	
D517	8-719-991-33	DIODE	1SS133T-77	
D519	8-719-991-33	DIODE	1SS133T-77	
D520	8-719-991-33	DIODE	1SS133T-77	
D521	8-719-991-33	DIODE	1SS133T-77	
D522	8-719-991-33	DIODE	1SS133T-77	
D523	8-719-991-33	DIODE	1SS133T-77	
D524	8-719-991-33	DIODE	1SS133T-77	
D525	8-719-991-33	DIODE	1SS133T-77	
D526	8-719-991-33	DIODE	1SS133T-77	
D527	8-719-991-33	DIODE	1SS133T-77	
D530	8-719-924-13	DIODE	MTZJ-T-77-22B	
D531	8-719-924-13	DIODE	MTZJ-T-77-22B	
D534	8-719-991-33	DIODE	1SS133T-77	
D535	8-719-991-33	DIODE	1SS133T-77	
D540	8-719-991-33	DIODE	1SS133T-77	
D541	8-719-991-33	DIODE	1SS133T-77	
D900	8-719-110-31	DIODE	RD12ESB2	
D901	8-719-063-74	DIODE	D1NL20U-TR2	
D903	8-719-110-31	DIODE	RD12ESB2	

FUSE

	REF. NO.	PART NO.	DESCRIPTION	VALUES	
⚠	F501	1-532-506-51	FUSE	6.3A	250V

FERRITE BEAD

REF. NO.	PART NO.	DESCRIPTION	VALUES
FB500	1-412-911-11	FERRITE	0μH
	(All except KV-34DRC510(S)/38DRC510(S)		
FB501	1-412-911-11	FERRITE	0μH
	(KV-34DRC510(S)/38DRC510(S) ONLY)		
FB502	1-412-911-11	FERRITE	0μH
FB901	1-410-397-21	FERRITE	1.1μH

FUSE HOLDER

REF. NO.	PART NO.	DESCRIPTION	VALUES
FH501	1-533-223-11	FUSE HOLDER	
FH502	1-533-223-11	FUSE HOLDER	.

IC

REF. NO.	PART NO.	DESCRIPTION	VALUES
IC501	8-759-450-47	IC	BA05T
IC502	8-759-520-49	IC	PQ30RV21
IC504	6-700-898-01	IC	PQ05RD21
IC505	8-759-653-07	IC	PQ09RD21
IC508	8-759-246-70	IC	TA8216H
IC509	8-759-246-70	IC	TA8216H
IC900	8-749-016-08	IC	STK390-910
IC901	8-759-450-47	IC	BA05T
IC903	8-759-595-52	IC	CXA8070AP

CHIP CONDUCTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
JR501	1-216-864-11	SHORT CHIP	
JR502	1-216-864-11	SHORT CHIP	
JR509	1-216-864-11	SHORT CHIP	
JR510	1-216-864-11	SHORT CHIP	
JR512	1-216-864-11	SHORT CHIP	
JR513	1-216-864-11	SHORT CHIP	
JR514	1-216-864-11	SHORT CHIP	
JR515	1-216-864-11	SHORT CHIP	
JR516	1-216-864-11	SHORT CHIP	

COIL

	REF. NO.	PART NO.	DESCRIPTION	VALUES
	L501	1-469-320-21	INDUCTOR	100μH
	L502	1-412-525-31	INDUCTOR	10μH
	L503	1-469-320-21	INDUCTOR	100μH
	L504	1-469-317-21	INDUCTOR	10μH
	L505	1-469-320-21	INDUCTOR	100μH
	L506	1-469-320-21	INDUCTOR	100μH
	L507	1-469-317-21	INDUCTOR	10μH
	L508	1-412-529-11	INDUCTOR	22μH
⚠	L510	1-433-404-11	TRANSFORMER, LINE FILTER	
		(KV-34DRC510(S)/38DRC510(S) ONLY)		
⚠	L510	1-433-900-11	TRANSFORMER, LINE FILTER	
		(KV-34DRC510(S)/38DRC510(S) ONLY)		
	L511	1-433-404-11	TRANSFORMER, LINE FILTER	
	L900	1-408-612-31	INDUCTOR	56μH

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
	IC LINK				
⚠ PS501	1-532-984-11	IC LINK	2A	50V	
⚠ PS502	1-532-984-11	IC LINK	2A	50V	
	TRANSISTOR				
Q501	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q505	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q506	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q507	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q508	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q509	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q510	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q511	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q513	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q514	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q515	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q516	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q517	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q518	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q519	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q524	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q527	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	RESISTOR				
R501	1-216-864-11	SHORT CHIP			
R502	1-244-207-11	WIREWOUND	3.3	5%	10W
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
R503	1-244-207-11	WIREWOUND	3.3	5%	10W
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R506	1-216-857-11	METAL CHIP	1M	5%	1/10W
R507	1-247-895-91	CARBON	470K	5%	1/4W
⚠ R508	1-219-512-11	METAL	2.2M	5%	1/2W
	(All except KV-34DRC510(S)/38DRC510(S)				
⚠ R508	1-218-265-11	METAL	8.2M	5%	1W
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
⚠ R509	1-244-270-11	CEMENTED	0.47	5%	20W
	(All except KV-34DRC510(S)/38DRC510(S)				

REF. NO.	PART NO.	DESCRIPTION	VALUES		
⚠ R509	1-244-268-11	CEMENTED	1	5%	20W
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
⚠ R510	1-244-270-11	CEMENTED	0.47	5%	20W
	(All except KV-34DRC510(S)/38DRC510(S)				
⚠ R510	1-244-268-11	CEMENTED	1	5%	20W
	(KV-34DRC510(S)/38DRC510(S) ONLY)				
R511	1-216-849-11	METAL CHIP	220K	5%	1/10W
R512	1-216-849-11	METAL CHIP	220K	5%	1/10W
R513	1-216-833-11	METAL CHIP	10K	5%	1/10W
R515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R516	1-216-857-11	METAL CHIP	1M	5%	1/10W
R517	1-216-805-11	METAL CHIP	47	5%	1/10W
R518	1-216-805-11	METAL CHIP	47	5%	1/10W
R519	1-216-839-11	METAL CHIP	33K	5%	1/10W
R520	1-216-837-11	METAL CHIP	22K	5%	1/10W
R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R527	1-216-341-11	METAL OXIDE	0.22	5%	1W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R529	1-216-857-11	METAL CHIP	1M	5%	1/10W
R530	1-216-847-11	METAL CHIP	150K	5%	1/10W
R531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R532	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R533	1-216-833-11	METAL CHIP	10K	5%	1/10W
R534	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R535	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R537	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R538	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R539	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W
R541	1-216-833-11	METAL CHIP	10K	5%	1/10W
R542	1-216-821-11	METAL CHIP	1K	5%	1/10W
R543	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R544	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R545	1-216-805-11	METAL CHIP	47	5%	1/10W
R546	1-216-805-11	METAL CHIP	47	5%	1/10W
R547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R551	1-216-833-11	METAL CHIP	10K	5%	1/10W
R552	1-216-837-11	METAL CHIP	22K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W	R607	1-216-833-11	METAL CHIP	10K	5%	1/10W
R554	1-216-864-11	SHORT CHIP				R608	1-216-821-11	METAL CHIP	1K	5%	1/10W
R555	1-216-833-11	METAL CHIP	10K	5%	1/10W	R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R556	1-216-839-11	METAL CHIP	33K	5%	1/10W	R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W	R615	1-249-385-11	CARBON	2.2	5%	1/4W
R558	1-216-857-11	METAL CHIP	1M	5%	1/10W	R617	1-249-385-11	CARBON	2.2	5%	1/4W
R559	1-216-847-11	METAL CHIP	150K	5%	1/10W	R619	1-249-385-11	CARBON	2.2	5%	1/4W
R560	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R622	1-249-385-11	CARBON	2.2	5%	1/4W
R563	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R628	1-249-429-11	CARBON	10K	5%	1/4W
R564	1-216-847-11	METAL CHIP	150K	5%	1/10W	R629	1-249-429-11	CARBON	10K	5%	1/4W
R565	1-216-821-11	METAL CHIP	1K	5%	1/10W	R631	1-249-429-11	CARBON	10K	5%	1/4W
R566	1-216-864-11	SHORT CHIP				R632	1-249-429-11	CARBON	10K	5%	1/4W
R567	1-216-864-11	SHORT CHIP				R635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R568	1-216-864-11	SHORT CHIP				R636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R569	1-216-864-11	SHORT CHIP				R643	1-216-864-11	SHORT CHIP			
R570	1-216-833-11	METAL CHIP	10K	5%	1/10W	R644	1-216-864-11	SHORT CHIP			
R572	1-216-809-11	METAL CHIP	100	5%	1/10W	R646	1-216-864-11	SHORT CHIP			
R573	1-216-847-11	METAL CHIP	150K	5%	1/10W	R648	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R574	1-216-809-11	METAL CHIP	100	5%	1/10W		(All except KV-34DRC510(S)/38DRC510(S))				
R575	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R648	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
							(KV-34DRC510(S)/38DRC510(S) ONLY)				
R576	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R577	1-216-821-11	METAL CHIP	1K	5%	1/10W	R900	1-216-864-11	SHORT CHIP			
R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R903	1-260-288-11	CARBON	0.47	5%	1/2W
R579	1-216-821-11	METAL CHIP	1K	5%	1/10W	R904	1-216-393-00	METAL OXIDE	2.2	5%	3W
R580	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R906	1-260-288-11	CARBON	0.47	5%	1/2W
						R909	1-216-843-11	METAL CHIP	68K	5%	1/10W
R584	1-216-813-11	METAL CHIP	220	5%	1/10W						
R585	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R912	1-216-381-11	METAL OXIDE	0.22	5%	3W
R586	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R915	1-215-886-11	METAL OXIDE	100	5%	2W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W	R918	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R588	1-216-833-11	METAL CHIP	10K	5%	1/10W	R921	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
						R927	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R589	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R590	1-216-813-11	METAL CHIP	220	5%	1/10W	R930	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R591	1-216-821-11	METAL CHIP	1K	5%	1/10W	R933	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R592	1-216-833-11	METAL CHIP	10K	5%	1/10W	R939	1-216-805-11	METAL CHIP	47	5%	1/10W
R595	1-216-813-11	METAL CHIP	220	5%	1/10W	R942	1-216-429-00	METAL OXIDE	270	5%	1W
						R945	1-216-805-11	METAL CHIP	47	5%	1/10W
R596	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R598	1-216-833-11	METAL CHIP	10K	5%	1/10W	R948	1-216-845-11	METAL CHIP	100K	5%	1/10W
R599	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R949	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R600	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R950	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R601	1-216-813-11	METAL CHIP	220	5%	1/10W	R951	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W						

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

A BM1C

REF. NO.	PART NO.	DESCRIPTION	VALUES
RELAY			
⚠ RY501	1-755-389-11	RELAY (AC POWER)	
TRANSFORMER			
T502	1-437-697-11	TRANSFORMER, STANDBY	
		(All except KV-34DRC510(S)/38DRC510(S)	
T502	1-437-742-11	TRANSFORMER, STANDBY	
		(KV-34DRC510(S)/38DRC510(S) ONLY)	
THERMISTOR			
⚠ TH501	1-803-970-11	THERMISTOR, POSITIVE	
		(All except KV-34DRC510(S)/38DRC510(S)	
⚠ TH501	1-803-540-11	THERMISTOR	
		(KV-34DRC510(S)/38DRC510(S) ONLY)	
TUNER			
TU501	8-598-594-20	TUNER, FSS BTF-FA421	
TU502	8-598-593-40	TUNER, FSS BTF-WA421	
VARISTOR			
⚠ VD501	1-803-585-11	VARISTOR	ENE271D-10A
		(All except KV-34DRC510(S)/38DRC510(S)	
⚠ VD501	1-803-967-11	VARISTOR	ENE621D-14A
		(KV-34DRC510(S)/38DRC510(S) ONLY)	

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Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	A-1300-690-A	BM1C BOARD, COMPLETE			
CAPACITOR					
C103	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C105	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C107	1-126-390-11	ELECT CHIP	22µF	20%	6.3V
C108	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C110	1-126-394-11	ELECT CHIP	10µF	20%	16V
C112	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C118	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C123	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C124	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C125	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C126	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C127	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C128	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C129	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C130	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C131	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C132	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C133	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C134	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C135	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C136	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C137	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C138	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C139	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C141	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C142	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C143	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C144	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C145	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C146	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C147	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C148	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C151	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C154	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C162	1-126-394-11	ELECT CHIP	10µF	20%	16V
C163	1-126-394-11	ELECT CHIP	10µF	20%	16V
C164	1-126-390-11	ELECT CHIP	22µF	20%	6.3V
C165	1-124-779-00	ELECT CHIP	10µF	20%	16V
C166	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

CONNECTOR

* CN104	1-816-933-21	CONNECTOR, BOARD TO BOARD 60P			

DIODE

D101	8-719-024-77	DIODE	HN1D03FU-TE85L		
D102	8-719-024-77	DIODE	HN1D03FU-TE85L		
D201	8-719-024-77	DIODE	HN1D03FU-TE85L		

FERRITE BEAD

FB101	1-414-921-11	FERRITE	0µH		
FB102	1-414-921-11	FERRITE	0µH		
FB103	1-414-921-11	FERRITE	0µH		
FB104	1-414-921-11	FERRITE	0µH		
FB106	1-500-451-11	FERRITE	0µH		
FB109	1-414-921-11	FERRITE	0µH		
FB110	1-414-921-11	FERRITE	0µH		
FB111	1-414-921-11	FERRITE	0µH		
FB120	1-414-921-11	FERRITE	0µH		
FB121	1-414-921-11	FERRITE	0µH		
FB122	1-414-921-11	FERRITE	0µH		
FB123	1-414-921-11	FERRITE	0µH		
FB124	1-414-921-11	FERRITE	0µH		
FB137	1-414-921-11	FERRITE	0µH		
FB141	1-414-921-11	FERRITE	0µH		
FB143	1-414-921-11	FERRITE	0µH		
FB149	1-414-921-11	FERRITE	0µH		

IC

IC101	6-702-978-01	IC	MD2406		
IC102	6-802-277-11	IC	SST39VF800A70E-11300-T		
IC104	8-759-460-72	IC	BA033FP-E2		
IC106	8-759-697-54	IC	BR24C21F-E2		
IC107	8-759-331-27	IC	MM1096AFF		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
IC108	6-702-511-11	IC	MT48LC8M16A2TG-75-Y95WT		
IC111	8-759-832-05	IC	BA18BC0FP-E2		
IC121	8-752-932-19	IC	CXP86608-001R		

COIL

L106	1-469-555-21	INDUCTOR	10µH		
L107	1-469-561-21	INDUCTOR	100µH		

TRANSISTOR

Q101	8-729-013-28	TRANSISTOR	HN1B01FU-TE85R		
Q103	8-729-905-35	TRANSISTOR	2SC4081-R		
Q105	8-729-427-72	TRANSISTOR	XP4501		
Q110	8-729-900-53	TRANSISTOR	DTC114EK		
Q116	8-729-900-53	TRANSISTOR	DTC114EK		
Q201	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q202	8-729-028-28	TRANSISTOR	2SK2036(TE85L)		
Q203	8-729-028-28	TRANSISTOR	2SK2036(TE85L)		

RESISTOR

R101	1-216-797-11	METAL CHIP	10	5%	1/10W
R102	1-216-797-11	METAL CHIP	10	5%	1/10W
R103	1-216-797-11	METAL CHIP	10	5%	1/10W
R105	1-216-797-11	METAL CHIP	10	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
R124	1-216-864-11	SHORT CHIP			
R125	1-216-864-11	SHORT CHIP			
R127	1-216-833-11	METAL CHIP	10K	5%	1/10W
R128	1-216-864-11	SHORT CHIP			
R129	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R136	1-216-797-11	METAL CHIP	10	5%	1/10W
R137	1-216-864-11	SHORT CHIP			
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W
R144	1-216-809-11	METAL CHIP	100	5%	1/10W
R145	1-216-809-11	METAL CHIP	100	5%	1/10W
R148	1-216-839-11	METAL CHIP	33K	5%	1/10W
R149	1-216-839-11	METAL CHIP	33K	5%	1/10W

BM1C **HB**

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R150	1-216-833-11	METAL CHIP	10K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-216-833-11	METAL CHIP	10K	5%	1/10W
R158	1-216-864-11	SHORT CHIP			
R161	1-216-801-11	METAL CHIP	22	5%	1/10W
R164	1-216-833-11	METAL CHIP	10K	5%	1/10W
R186	1-216-864-11	SHORT CHIP			
R189	1-216-864-11	SHORT CHIP			
R190	1-216-864-11	SHORT CHIP			
R201	1-216-845-11	METAL CHIP	100K	5%	1/10W
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-845-11	METAL CHIP	100K	5%	1/10W
R209	1-216-845-11	METAL CHIP	100K	5%	1/10W
R213	1-218-830-11	METAL CHIP	200	0.50%	1/10W
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W
R218	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-809-11	METAL CHIP	100	5%	1/10W
R222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R230	1-216-833-11	METAL CHIP	10K	5%	1/10W
R232	1-218-709-11	METAL CHIP	5.1K	0.50%	1/10W
R238	1-216-864-11	SHORT CHIP			
R239	1-216-833-11	METAL CHIP	10K	5%	1/10W
R240	1-216-833-11	METAL CHIP	10K	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W
R287	1-216-833-11	METAL CHIP	10K	5%	1/10W
R288	1-216-797-11	METAL CHIP	10	5%	1/10W
R290	1-216-797-11	METAL CHIP	10	5%	1/10W

RESISTOR BRIDGE

RB101	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB102	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB103	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB104	1-234-381-21	RES, NETWORK 100KX4	(1005)
RB105	1-234-372-21	RES, NETWORK 100X4	(1005)
RB106	1-234-378-21	RES, NETWORK 10KX4	(1005)
RB107	1-234-370-21	RES, NETWORK 22X4	(1005)
RB108	1-234-370-21	RES, NETWORK 22X4	(1005)
RB109	1-234-370-21	RES, NETWORK 22X4	(1005)
RB110	1-234-370-21	RES, NETWORK 22X4	(1005)

REF. NO.	PART NO.	DESCRIPTION	VALUES		
RB111	1-234-370-21	RES, NETWORK 22X4	(1005)		
RB112	1-234-370-21	RES, NETWORK 22X4	(1005)		
RB113	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB114	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB115	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB121	1-234-371-21	RES, NETWORK 47X4	(1005)		
RB122	1-234-371-21	RES, NETWORK 47X4	(1005)		
RB123	1-234-371-21	RES, NETWORK 47X4	(1005)		
RB124	1-234-371-21	RES, NETWORK 47X4	(1005)		
RB131	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB132	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB133	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB134	1-234-378-21	RES, NETWORK 10KX4	(1005)		

CRYSTAL

X101	1-795-725-21	CRYSTAL OSCILLATOR (SMD)	
X102	1-795-313-21	VIBRATOR, CERAMIC	

HB

*	A-1400-548-A	**HB BOARD, MOUNTED**	

CAPACITOR

C1100	1-126-960-11	ELECT	1μF	20%	50V
C1101	1-126-960-11	ELECT	1μF	20%	50V

CONNECTOR

*	CN1100	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P

DIODE

D1100	8-719-977-28	DIODE	DTZ10B
D1101	8-719-977-28	DIODE	DTZ10B
D1103	8-719-977-28	DIODE	DTZ10B

FILTER

FL1100	1-239-583-21	FERRITE	0μH
FL1101	1-239-583-21	FERRITE	0μH
FL1102	1-239-583-21	FERRITE	0μH

HB HA CX

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	JACK				
J1100	1-770-053-12	TERMINAL BLOCK, S(LIGHT ANGLE)			
	RESISTOR				
R1100	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1101	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1102	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1103	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1104	1-216-864-11	SHORT CHIP			
R1105	1-216-864-11	SHORT CHIP			
R1106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1107	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1108	1-216-864-11	SHORT CHIP			
	VARISTOR				
VD1102	1-803-974-21	VARISTOR, CHIP	(1608)		

HA

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	**A-1400-549-A**	**HA BOARD, MOUNTED**			
	(All except KV-34HS510)				
	CAPACITOR				
C1002	1-126-964-11	ELECT	10µF	20%	50V
	CONNECTOR				
*	CN1000	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P	
	DIODE				
D1004	8-719-070-80	DIODE	LNK0120022G		
D1005	8-719-070-80	DIODE	LNK0120022G		
	IC				
IC1000	8-742-212-20	HYB IC	SBX3081-71		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR				
R1000	1-249-385-11	CARBON	2.2	5%	1/4W
R1001	1-249-385-11	CARBON	2.2	5%	1/4W
R1002	1-249-413-11	CARBON	470	5%	1/4W
R1003	1-249-415-11	CARBON	680	5%	1/4W
R1005	1-249-417-11	CARBON	1K	5%	1/4W
R1006	1-249-421-11	CARBON	2.2K	5%	1/4W
R1009	1-249-413-11	CARBON	470	5%	1/4W
R1010	1-249-415-11	CARBON	680	5%	1/4W
R1011	1-249-417-11	CARBON	1K	5%	1/4W
R1012	1-249-421-11	CARBON	2.2K	5%	1/4W
R1013	1-249-425-11	CARBON	4.7K	5%	1/4W
R1014	1-249-431-11	CARBON	15K	5%	1/4W
R1015	1-249-433-11	CARBON	22K	5%	1/4W
R1016	1-249-409-11	CARBON	220	5%	1/4W
R1017	1-249-409-11	CARBON	220	5%	1/4W
R1019	1-247-807-31	CARBON	100	5%	1/4W
	SWITCH				
S1000	1-692-431-21	SWITCH, TACTILE			
S1001	1-692-431-21	SWITCH, TACTILE			
S1003	1-692-431-21	SWITCH, TACTILE			
S1004	1-692-431-21	SWITCH, TACTILE			
S1005	1-692-431-21	SWITCH, TACTILE			
S1006	1-692-431-21	SWITCH, TACTILE			
S1007	1-692-431-21	SWITCH, TACTILE			
S1008	1-762-837-11	SWITCH, TACTILE			
S1009	1-762-837-11	SWITCH, TACTILE			
S1010	1-762-837-11	SWITCH, TACTILE			
S1011	1-762-837-11	SWITCH, TACTILE			

CX

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	**A-1400-562-A**	**CX BOARD, MOUNTED**			
	CAPACITOR				
C9004	1-115-350-51	CERAMIC	0.0047µF		2KV
C9009	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9010	1-163-104-00	CERAMIC CHIP	30pF	5%	50V
C9011	1-161-830-00	CERAMIC	0.0047µF		500V
C9012	1-161-830-00	CERAMIC	0.0047µF		500V
C9013	1-163-035-00	CERAMIC CHIP	0.047µF		50V
C9014	1-161-830-00	CERAMIC	0.0047µF		500V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C9015	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C9018	1-107-961-91	ELECT	10µF	20%	250V
C9019	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9020	1-107-961-91	ELECT	10µF	20%	250V
C9021	1-107-961-91	ELECT	10µF	20%	250V
C9022	1-101-004-00	CERAMIC	0.01µF		50V
C9023	1-101-004-00	CERAMIC	0.01µF		50V
C9024	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9025	1-104-653-11	ELECT	220µF	20%	16V
C9026	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9027	1-101-004-00	CERAMIC	0.01µF		50V
C9031	1-115-350-51	CERAMIC	0.0047µF		2KV
C9032	1-162-116-00	CERAMIC	680pF	10%	2KV
C9033	1-107-662-11	ELECT	22µF	20%	350V
C9036	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C9042	1-128-527-11	ELECT	330µF	20%	25V
C9044	1-126-934-11	ELECT	220µF	20%	16V
C9045	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9046	1-126-933-11	ELECT	100µF	20%	16V
C9048	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9049	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9050	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V

CONNECTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
* CN9001	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P
* CN9002	1-564-507-11	PLUG, CONNECTOR	4P
CN9003	1-695-915-11	TAB (CONTACT)	
CN9004	1-695-915-11	TAB (CONTACT)	
CN9009	1-785-879-11	CONNECTOR, ONE TOUCH	

DIODE

REF. NO.	PART NO.	DESCRIPTION	VALUES
D9005	8-719-404-50	DIODE	MA111-TX
D9006	8-719-051-85	DIODE	HSS83TD
D9007	8-719-051-85	DIODE	HSS83TD
D9008	8-719-051-85	DIODE	HSS83TD
D9009	8-719-908-03	DIODE	GP08D
D9010	8-719-110-17	DIODE	RD10ESB2

IC

REF. NO.	PART NO.	DESCRIPTION	VALUES
IC9001	8-759-680-01	IC	TDA6120Q/N2/S1
IC9002	8-759-680-01	IC	TDA6120Q/N2/S1
IC9003	8-759-680-01	IC	TDA6120Q/N2/S1

☞ CRT SOCKET

REF. NO.	PART NO.	DESCRIPTION	VALUES
⚠ J9001	1-451-544-21	SOCKET, CRT	

COIL

REF. NO.	PART NO.	DESCRIPTION	VALUES
L9002	1-408-592-11	INDUCTOR	1.2µH
L9003	1-408-592-11	INDUCTOR	1.2µH
L9004	1-408-592-11	INDUCTOR	1.2µH
L9005	1-406-666-21	INDUCTOR	150µH
L9006	1-412-526-11	INDUCTOR	12µH

NEON LAMP

REF. NO.	PART NO.	DESCRIPTION	VALUES
NL9003	1-519-421-11	GAP, DISCHARGE	

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
Q9001	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9003	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9004	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9005	8-729-422-27	TRANSISTOR	2SD601A-Q
Q9007	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
Q9009	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9010	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q9013	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16
Q9014	8-729-823-81	TRANSISTOR	2SC4632LS-CB7
Q9015	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16

RESISTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9001	1-216-633-11	METAL CHIP	180	0.50%	1/10W
R9006	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9007	1-208-783-11	METAL CHIP	1.1K	0.50%	1/10W
R9012	1-216-295-91	SHORT CHIP			
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9014	1-216-033-00	RES-CHIP	220	5%	1/10W
R9015	1-249-409-11	CARBON	220	5%	1/4W
R9016	1-216-033-00	RES-CHIP	220	5%	1/10W
R9018	1-216-633-11	METAL CHIP	180	0.50%	1/10W
R9019	1-216-633-11	METAL CHIP	180	0.50%	1/10W
R9020	1-216-025-11	RES-CHIP	100	5%	1/10W
R9021	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9022	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9023	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9025	1-216-025-11	RES-CHIP	100	5%	1/10W
R9026	1-208-783-11	METAL CHIP	1.1K	0.50%	1/10W
R9027	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9028	1-216-103-00	RES-CHIP	180K	5%	1/10W

CX W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9029	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9030	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9031	1-208-783-11	METAL CHIP	1.1K	0.50%	1/10W
R9032	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9033	1-215-435-00	METAL	3.9K	1%	1/4W
R9034	1-215-428-00	METAL	2K	1%	1/4W
R9035	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9036	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9037	1-215-926-00	METAL OXIDE	33K	5%	3W
R9039	1-216-025-11	RES-CHIP	100	5%	1/10W
R9041	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9042	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9043	1-215-926-00	METAL OXIDE	33K	5%	3W
R9044	1-215-926-00	METAL OXIDE	33K	5%	3W
R9047	1-219-744-11	METAL	220	5%	1/2W
R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9051	1-219-744-11	METAL	220	5%	1/2W
R9052	1-219-744-11	METAL	220	5%	1/2W
R9056	1-219-743-11	METAL	100	5%	1/2W
R9057	1-219-510-11	METAL	470K	5%	1/2W
R9059	1-219-746-11	METAL	1K	5%	1/2W
R9061	1-219-743-11	METAL	100	5%	1/2W
R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9063	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9070	1-247-807-31	CARBON	100	5%	1/4W
R9071	1-247-807-31	CARBON	100	5%	1/4W
R9072	1-216-025-11	RES-CHIP	100	5%	1/10W
R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9074	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R9077	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9089	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W
R9091	1-215-429-00	METAL	2.2K	1%	1/4W
R9092	1-216-295-91	SHORT CHIP			
R9094	1-216-295-91	SHORT CHIP			
R9095	1-216-295-91	SHORT CHIP			

VARIABLE RESISTOR

⚠ RV9001	1-241-714-11	RES, ADJ, METAL FILM	110M	

W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	A-1400-561-A	W BOARD, MOUNTED			
	4-382-854-01	SCREW (M3X8), P, SW (+)			

CAPACITOR

C9101	1-104-999-11	MYLAR	0.1µF	5%	200V
C9104	1-126-933-11	ELECT	100µF	20%	16V
C9105	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9108	1-107-662-11	ELECT	22µF	20%	350V
C9109	1-161-830-00	CERAMIC	0.0047µF		500V
C9110	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9111	1-126-964-11	ELECT	10µF	20%	50V
C9112	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C9113	1-137-528-11	MYLAR	0.1µF	10%	250V
C9114	1-107-636-11	ELECT	10µF	20%	160V
C9115	1-137-528-11	MYLAR	0.1µF	10%	250V
C9116	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9117	1-117-450-11	MYLAR	0.47µF	10%	250V
C9118	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9119	1-126-947-11	ELECT	47µF	20%	35V
C9120	1-130-495-00	MYLAR	0.1µF	5%	50V
C9121	1-126-947-11	ELECT	47µF	20%	35V
C9122	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9123	1-126-964-11	ELECT	10µF	20%	50V
C9125	1-130-495-00	MYLAR	0.1µF	5%	50V
C9126	1-126-947-11	ELECT	47µF	20%	35V
C9127	1-130-495-00	MYLAR	0.1µF	5%	50V
C9128	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

CONNECTOR

*	CN9100	1-564-512-11	PLUG, CONNECTOR	9P
*	CN9101	1-564-506-11	PLUG, CONNECTOR	3P
*	CN9102	1-564-508-11	PLUG, CONNECTOR	5P
*	CN9103	1-770-747-11	CONNECTOR, BOARD TO BOARD	12P

FERRITE BEAD

FB9100	1-410-397-21	FERRITE	1.1µH
FB9101	1-410-397-21	FERRITE	1.1µH

REF. NO.	PART NO.	DESCRIPTION	VALUES		
IC					
IC9100	8-759-803-42	IC	LA6500-FA		
IC9102	8-759-803-42	IC	LA6500-FA		
CHIP CONDUCTOR					
JR9100	1-216-864-11	SHORT CHIP			
JR9101	1-216-864-11	SHORT CHIP			
COIL					
L9100	1-412-525-31	INDUCTOR	10μH		
TRANSISTOR					
Q9100	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9101	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9102	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9103	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9104	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9105	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9106	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9107	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9108	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9109	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9110	8-729-045-04	TRANSISTOR	2SC5511		
Q9111	8-729-045-05	TRANSISTOR	2SA2005		
RESISTOR					
R9101	1-216-805-11	METAL CHIP	47	5%	1/10W
R9102	1-260-322-11	CARBON	330	5%	1/2W
R9103	1-216-819-11	METAL CHIP	680	5%	1/10W
R9104	1-216-820-11	METAL CHIP	820	5%	1/10W
R9105	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9106	1-218-715-11	METAL CHIP	9.1K	0.50%	1/10W
R9107	1-216-809-11	METAL CHIP	100	5%	1/10W
R9108	1-216-817-11	METAL CHIP	470	5%	1/10W
R9109	1-216-817-11	METAL CHIP	470	5%	1/10W
R9110	1-216-805-11	METAL CHIP	47	5%	1/10W
R9111	1-216-805-11	METAL CHIP	47	5%	1/10W
R9112	1-249-389-11	CARBON	4.7	5%	1/4W
R9113	1-249-389-11	CARBON	4.7	5%	1/4W
R9114	1-249-389-11	CARBON	4.7	5%	1/4W
R9115	1-249-389-11	CARBON	4.7	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9116	1-249-389-11	CARBON	4.7	5%	1/4W
R9117	1-249-389-11	CARBON	4.7	5%	1/4W
R9118	1-249-389-11	CARBON	4.7	5%	1/4W
R9119	1-249-389-11	CARBON	4.7	5%	1/4W
R9120	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9121	1-216-848-11	METAL CHIP	180K	5%	1/10W
R9122	1-216-847-11	METAL CHIP	150K	5%	1/10W
R9123	1-216-848-11	METAL CHIP	180K	5%	1/10W
R9124	1-216-847-11	METAL CHIP	150K	5%	1/10W
R9125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9126	1-216-805-11	METAL CHIP	47	5%	1/10W
R9127	1-216-805-11	METAL CHIP	47	5%	1/10W
R9128	1-215-890-11	METAL OXIDE	470	5%	2W
R9129	1-249-395-11	CARBON	15	5%	1/4W
R9130	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R9131	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R9132	1-218-713-11	METAL CHIP	7.5K	0.50%	1/10W
R9133	1-249-391-11	CARBON	6.8	5%	1/4W
R9134	1-249-383-11	CARBON	1.5	5%	1/4W
R9135	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9136	1-218-690-11	METAL CHIP	820	0.50%	1/10W
R9137	1-218-723-11	METAL CHIP	20K	0.50%	1/10W
R9138	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R9139	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9141	1-214-657-11	METAL	1	1%	1/4W
R9142	1-214-657-11	METAL	1	1%	1/4W
R9143	1-216-429-00	METAL OXIDE	270	5%	1W
R9144	1-215-867-00	METAL OXIDE	470	5%	1W

HC

REF. NO.	PART NO.	DESCRIPTION	VALUES		

HC

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	**A-1400-709-A**	**HC BOARD, MOUNTED**			
	(KV-34HS510 ONLY)				
		CAPACITOR			
C1002	1-126-964-11	ELECT	10µF	20%	50V
		CONNECTOR			
* CN1000	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P		
		DIODE			
D1004	8-719-070-80	DIODE	LNK0120022G		
D1005	8-719-070-80	DIODE	LNK0120022G		
		IC			
IC1000	8-742-212-20	HYB IC	SBX3081-71		
		RESISTOR			
R1000	1-249-385-11	CARBON	2.2	5%	1/4W
R1002	1-249-413-11	CARBON	470	5%	1/4W
R1003	1-249-415-11	CARBON	680	5%	1/4W
R1005	1-249-417-11	CARBON	1K	5%	1/4W
R1006	1-249-421-11	CARBON	2.2K	5%	1/4W
R1015	1-249-433-11	CARBON	22K	5%	1/4W
R1016	1-249-409-11	CARBON	220	5%	1/4W
R1017	1-249-409-11	CARBON	220	5%	1/4W
R1019	1-247-807-31	CARBON	100	5%	1/4W
		SWITCH			
S1000	1-692-431-21	SWITCH, TACTILE			
S1001	1-692-431-21	SWITCH, TACTILE			
S1003	1-571-032-41	SWITCH, PUSH (1 KEY)			
S1004	1-692-431-21	SWITCH, TACTILE			
S1005	1-692-431-21	SWITCH, TACTILE			
S1006	1-692-431-21	SWITCH, TACTILE			

ACCESSORIES AND PACKING

REF. NO.	PART NO.	DESCRIPTION	VALUES
*	4-087-598-01	BAG, PROTECTION	
		(All except KV-38DRC510 LATIN SOUTH)	
*	4-066-845-11	BAG, PROTECTION	
		(KV-32HS510/34DRC510/34DRC510C/34HS510 ONLY)	
*	4-066-646-02	BAG, PROTECTION (KV-34HS510 ONLY) (FOR PTG)	
*	4-066-845-02	BAG, PROTECTION (KV-34HS510 ONLY) (FOR STE)	
*	4-086-427-03	CARTON, HSC	
		(All except KV-38DRC510 LATIN SOUTH)	
*	4-088-518-02	CARTON, HSC (KV-34HS510 ONLY) (FOR PTG)	
*	4-093-283-01	CARTON, HSC (KV-34HS510 ONLY) (FOR STE)	
*	4-086-687-01	CARTON, INDIVIDUAL	
		(KV-32HS510/34DRC510/34DRC510C ONLY)	
*	4-086-430-01	CUSHION, FRONT (UPPER)	
		(All except KV-38DRC510 LATIN SOUTH)	
*	4-086-688-01	CUSHION, FRONT (UPPER)	
		(KV-32HS510/34DRC510/34DRC510C ONLY)	
*	4-086-432-01	CUSHION, LOWER	
		(All except KV-38DRC510 LATIN SOUTH)	
*	4-086-690-02	CUSHION, LOWER	
		(KV-32HS510/34DRC510/34DRC510C ONLY)	
*	4-081-641-01	CUSHION, LOWER (KV-34HS510 ONLY) (FOR STE)	
*	4-089-986-01	CUSHION, LOWER (KV-34HS510 ONLY) (FOR PTG)	
*	4-086-431-01	CUSHION, REAR (UPPER)	
		(All except KV-38DRC510 LATIN SOUTH)	
*	4-086-691-02	CUSHION, REAR (UPPER)	
		(KV-32HS510/34DRC510/34DRC510C ONLY)	
*	4-081-640-02	CUSHION, UPPER (KV-34HS510 ONLY) (FOR STE)	
*	4-089-985-01	CUSHION, UPPER (KV-34HS510 ONLY) (FOR PTG)	
	4-094-065-21	MANUAL, INSTRUCTION	
		(KV-32HS510/36HS510 ONLY)	
	4-094-065-31	MANUAL, INSTRUCTION	
		(KV-32HS510/36HS510 CANADA ONLY)	
	4-094-065-41	MANUAL, INSTRUCTION	
		(KV-34DRC510/34DRC510C/38DRC510 ONLY)	
	4-094-066-21	MANUAL, INSTRUCTION	
		(KV-34HS510 ONLY)	
	4-094-066-31	MANUAL, INSTRUCTION	
		(KV-34HS510 CANADA ONLY)	
*	4-041-423-01	SHEET, PROTECTION	
		(KV-36HS510/38DRC510 LATIN NORTH)	

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
		REMOTE COMMANDER					
	1-477-935-11	REMOTE COMMANDER RM-Y190 (All except KV-34HS510)					
	1-477-936-11	REMOTE COMMANDER RM-Y191 (KV-34HS510 ONLY)					
	4-978-977-01	BATTERY COVER (for RM-Y190) (All except KV-34HS510)					
	4-081-888-01	BATTERY COVER (for RM-Y191) (KV-34HS510 ONLY)					

D BOARD SCHEMATIC DIAGRAM (1 OF 2)

D BOARD WAVEFORMS

(1) 12 Vp-p (H)	(2) 152.4 Vp-p (H)	(3) 12.8Vp-p (H)	(4) 1.0 KVp-p (H)
(5) 8.0 Vp-p (V)	(6) 60.2 Vp-p (V)	(7) 7.3 Vp-p (V)	(8) 1.9 Vp-p (V)
(9) 94.6 Vp-p (H)	(10) 1.7 Vp-p (H)	(11) 1.5 Vp-p (V)	(12) 2.9 Vp-p (H)

D BOARD IC VOLTAGE LIST

IC5001		IC5007		2	1.0	6	0.0	6	0.0
PIN	VOLT	PIN	VOLT	3	-15.8	7	4.6	7	4.6
1	10.9	1	2.4	4	1.7	8	17.9	8	17.9
2	10.9	2	0.7	5	12.0	9	0.0	9	0.0
3	N/C	3	9.0	IC5511		10	10.5	10	10.5
4	GND	4	1.6	PIN	VOLT	11	GND	11	GND
5	3.9	5	GND	1	4.0	12	4.8	12	4.8
6	3.9	6	3.9	2	5.8	13	N/C	13	N/C
7	4.7	7	2.7	3	5.8	14	151.8	14	151.8
8	12.0	8	0.4	4	GND	15	142.2	15	142.2
IC5002		9	3.0	5	2.6	16	146.3	16	146.3
PIN	VOLT	10	N/C	6	2.6	17	N/C	17	N/C
1	5.6	11	N/C	7	7.6	18	306.1	18	306.1
2	2.6	12	GND	8	12.0	IC6503		IC8004	
3	5.9	13	N/C	IC5512		PIN	VOLT	PIN	VOLT
4	GND	14	0.7	PIN	VOLT	1	133.8	1	6.9
5	5.1	IC5502		I	-15.0	2	N/C	2	6.9
6	5.6	PIN	VOLT	O	-12.0	3	2.5	3	6.9
7	4.8	1	6.9	G	GND	4	11.0	4	GND
8	12.0	2	0.5	IC5515		5	GND	5	6.9
IC5004		3	12.0	PIN	VOLT	IC6505		6	6.9
PIN	VOLT	4	2.7	1	0.0	PIN	VOLT	7	6.9
1	1.2	5	3.7	2	0.0	1	134.4	8	15.0
2	14.1	6	2.6	3	0.0	2	15.4	IC8005	

CAUTION !

IC5004 HEAT SINK IS -15V CARE MUST BE TAKEN NOT TO
ALLOW HEAT SINK TO TOUCH ANY OTHER COMPONENTS
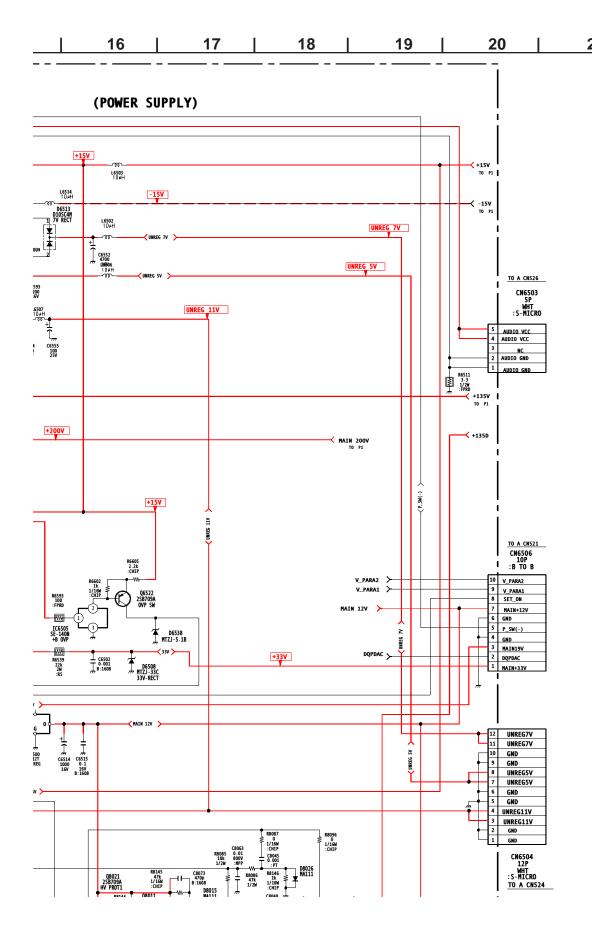
1	1.2	5	5.7	2	0.0	1	104.4	5	10.0
2	14.1	6	2.6	3	0.0	2	15.4	**IC8005**	
3	-13.1	7	4.4	4	-11.9	3	GND	**PIN**	**VOLT**
4	-15.3	8	N/C	5	6.0	**IC8001**		1	2.5
5	0.0	9	N/C	6	6.0	**PIN**	**VOLT**	2	GND
6	14.6	10	N/C	7	6.0	1	0.1	3	9.9
7	1.2	11	N/C	8	9.0	2	2.5	**IC8006**	
IC5005		12	GND	**IC6500**		3	2.1	**PIN**	**VOLT**
PIN	**VOLT**	13	N/C	**PIN**	**VOLT**	4	GND	1	0.0
1	99.4	14	N/C	I	15.0	5	2.3	2	2.5
2	99.1	**IC5504**		O	12.0	6	2.5	3	2.2
3	94.6	**PIN**	**VOLT**	G	GND	7	0.0	4	GND
4	98.8	1	1.6	4	N/C	8	17.5	5	7.5
5	105.0	2	1.6	**IC6501**		**IC8002**		6	4.5
IC5006		3	GND	**PIN**	**VOLT**	**PIN**	**VOLT**	7	14.8
PIN	**VOLT**	4	5.4	1	2.8	1	2.6	8	15.0
I	7.7	5	12.0	2	1.8	2	1.8	**IC8104**	
O	6.3	**IC5506**		3	2.2	3	2.2	**PIN**	**VOLT**
G	GND	**PIN**	**VOLT**	4	2.5	4	2.5	1	2.5
VC	N/C	1	1.0	5	GND	5	GND	2	GND
								3	2.5

All voltages are in V.

D (1/2)

H/V DRIVE
H/V DY

DY

H.DY H.DY V.DY V.DY

9-965-937-01<DA4> D(1/2)

CN5003
4P
WHT
:S-MICRO
TO CX BOARD CN9002

TO P2
MAIN 200V

(POWER SUPPLY)

D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E		B	C	E
Q5001	4.8	12	4.9	Q5505	0.4	9.0	0.0
Q5002	4.8	GND	4.9	Q5506	0.0	2.7	GND
Q5004	133.3	3.7	132.7	Q5510	0.7	8.3	0.8
Q5005	0.0	14.1	0.2	Q5512	4.4	12.0	3.8
Q5006	11.2	12.0	10.7	Q5513	1.3	8.7	4.2
Q5009	0.0	0.1	GND	Q5568	6.9	12.0	7.0
Q5010	0.1	0.8	GND	Q5569	6.9	0.0	7.0
Q5012	3.4	97.5	2.9	Q6522	15.4	0.0	15.4
Q5013	2.8	GND	3.4	Q6527	0.8	0.1	GND
Q5018	0.7	0.0	GND	Q6530	3.2	0.0	3.2
Q5019	2.2	9.0	2.1	Q6532	0.0	3.2	GND
Q5020	2.2	GND	2.1	Q8003	0.1	2.6	GND
Q5021	0.9	9.0	1.3	Q8004	0.1	2.6	GND
Q5022	0.6	GND	1.2	Q8007	0.6	0.1	GND
Q5023	0.2	3.9	GND	Q8008	0.6	0.1	GND
Q5024	2.4	9.0	2.2	Q8011	11.9	0.0	12.0
Q5025	0.9	-15.0	1.3	Q8015	0.6	0.0	GND
Q5026	3.8	9.0	3.8	Q8016	132.6	132.4	133.3
Q5027	3.8	0.0	3.8	Q8018	0.0	86.6	GND
Q5030	0.0	84.3	GND	Q8019	0.6	0.0	GND
Q5035	0.0	2.1	GND	Q8020	0.0	0.6	GND
Q5036	0.2	3.8	GND	Q8021	11.7	0.0	12.0
Q5043	0.1	2.4	GND	Q8022	3.4	GND	3.5
Q5044	0.0	0.1	GND	Q8023	3.4	9.0	3.5
Q5501	0.5	3.4	GND	Q8028	0.0	11.7	GND
Q5502	0.0	6.9	GND	Q8034	0.0	12.0	GND
Q5503	0.0	0.5	GND	Q8035	11.6	2.5	12.0
Q5504	0.2	-12.0	0.8				

	D	G	S
Q5003	10.9	128.8	135.0
Q5028	63.9	3.8	GND
Q5031	14.6	2.1	GND
Q5507	10.5	6.9	GND
Q6506	140.1	4.8	GND
Q6507	305.6	145.1	140.1
Q8013	136.0	4.5	GND
Q8014	305.0	131.0	136.0

All voltages are in V.

D (2/2)

POWER SUPPLY
AC RECT
DEFLECTION

J K L M N O

+15V

+15V

HOLDDOWN

HV-PROT-ADJ

15V-1
PG.1

HV PROT
IK-PROT2

H-COMP

IC8001 NJM2903M PROTECT

IC8104 TL431CZ-TP VREF

IC8006 NJM2903M PROTECT

IC8005 μPC1093J- CONTROL

Q8013 IRFIB7N50A CONVERTER

PH8004 PC123Y22 HV FEEDBACK

PH8003 PC123Y22 HV FEEDBACK

PH8001 PC3J3Y22 HV FEEDBACK

D8022 DIML20U HD RECT

D8006 DIML20U STOPPER

— 129 —

(HV REG)

Q8021
2SB709A
HV PROT1

Q8001
2SB709A
HV PROT3

R8144
220k
:CHIP

R8020
10k
:CHIP

C8065
0.22
16V
B:1608

Q8028
2SD601A
HV PROT2

R8097
10
:CHIP

R8090
10k
1/16W
:CHIP

D8030
UDZ-18B

D8015
MA111
STOPPER

R8076
330
0.5W

C8073
470p
B:1608

R8086
47k
1/2W

R8091
470k
:RN

R8095
470k
:RN

D8015
MA111

C8048
0.1
:PT

R8146
1k
1/16W
:CHIP

PDF
TO P1

TO P1
H PROT

D8007
MA111

D8019
JW(5)

R8024
10k
1/16W
:CHIP

Q8008
2SD601A
1K-PROT-1

C8015
47
25V

C8018
10

R8031
100k
1/16W
:RN-CP

R8029
68k
:RN-CP

+12V

R8040
10k
:RN

R8019
10k
:RN

R8038
10k
:RN

R8037
10k
:RN

R8043
12k
:RN

R8036
560
:RN

D8023
MTZJ-5.1B
1K-PROT-REF

D8005
MA111

R8022
10k
1/16W
:CHIP

C8012
47
25V

Q8007
2SD601A
1K-PROT-2

C8017
10

R8030
100k
1/16W
:RN-CP

R8027
68k
1/16W
:RN-CP

R8035
3.9k
:RN-CP

R8041
0
1/16W
:CHIP

C8020
0.1
:PT

IC8004
NJM2904M
BUFF

D8009
UDZS-15B

Q8034
2SD601A
HV PROT4

R8158
100
1/16W
:CHIP

R8159
15k
1/16W
:CHIP

R8160
470k
1/16W
:CHIP

D8034
MTZJ-7.5B

C8077
0.01
25V
B:1608

Q8035
2SB709A
PROT SW

R8161
10k
1/16W
:CHIP

C8075
0.01
25V
B:1608

R8200
10k
1/16W
:CHIP

R8203
10k

C8076
4.7

9-965-937-01<DA4> D(2/2)

16 17 18 19 20 21 22

M BOARD WAVEFORMS

① 1.3 Vp-p (H)

② 1.3 Vp-p (H)

③ 1.7 Vp-p (H)

④ 2.2 Vp-p (H)

⑤ 1.7 Vp-p (H)

IC2006
CXA2171Q
COMPONENT-I/F

SUB CXA2103

IC2008
NJM2283
YCT_SEL

IC2009
TC74LVX157FT
SYNC SW

CN2002
50P
:B TO B

TO A CN523

MCCDIN (P3)
MIDCONT (P3)
ANTSW (P3)

Pin	Signal
50	GND
49	SUBOSD
48	GND
47	SUBH
46	ABLATT
45	SUBV
44	OCP
43	ANTSW
42	THSW
41	GND
40	VDOVS
39	MIDBUSY
38	MIDRST
37	VDOHS
36	POWER INT
35	DQPDAC
34	VDOCR
33	GND
32	GND
31	VDOCB
30	DFDAC
29	GND
28	VDOY
27	GND
26	GND
25	5V
24	5V
23	9V
22	9V
21	DRCV
20	DGCRLY
19	ACRLY
18	DRCH
17	5V-D
16	5V-D
15	DRCCR
14	GND
13	VARMUTE
12	DRCCB
11	GND
10	GND
9	DRCY
8	AMUTE
7	OUTWL
6	OUTWR
5	SPMUTE
4	L
3	GND
2	R
1	GND

CLAMPMUTE (P3)

VDOY VDOY
VDOCB
VDOCR VDOCR

POWERCONT (P3)
MAINCCD (P3)

3.3V

M BOARD 1/4

VIDEO PROCESSOR

IC2010
TC74LVX157FT
SYNC SW

MAINCCD (P3)

SUBDRC (P3)

+3.3V

SYNCSW (P3)

YCBCRSW0 (P3)
H:1.m
L:V5N6

VDOVS

SUBCCD (P3)

SCCDIN (P3)

SVD
SHD
SUBY

VDOHS

R2113 100 1/16W :CHIP
R2112 100 1/16W :CHIP
R2125 100 1/16W :CHIP
R2124 100 1/16W :CHIP
R2123 100 1/16W :CHIP
R2119 100 1/16W :CHIP
R2118 100 1/16W :CHIP
R2126 100 1/16W :CHIP
R2131 100 1/16W :CHIP

C2132 0.1 25V F:1608

9-965-937-01<DA4>M(1/4)

U BOARD SCHEMATIC DIAGRAM

U BOARD WAVEFORMS

1	2
1.7 Vp-p (H)	2.2 Vp-p (H)

U BOARD IC VOLTAGE LIST

IC1502		21	4.9	43	4.5	IC1505	
PIN	VOLT	22	3.9	44	4.3	PIN	VOLT
1	3.9	23	4.5	45	4.5	1	4.7
2	4.5	24	N/C	46	N/C	2	0.0
3	3.9	25	4.5	47	4.4	3	3.2
4	4.5	26	N/C	48	N/C	4	GND
5	4.5	27	N/C	49	4.9	5	3.2
6	N/C	28	N/C	50	4.5	6	3.2
7	4.9	29	4.5	51	4.5	7	0.0
8	4.3	30	3.9	52	N/C	8	4.6
9	4.5	31	4.5	53	4.4	9	4.6
10	3.9	32	GND	54	N/C	10	GND
11	4.5	33	4.6	55	N/C	11	4.7
12	4.5	34	4.6	56	4.1	12	0.0
13	N/C	35	GND	57	GND	13	9.0
14	4.9	36	N/C	58	4.4	14	4.7
15	3.9	37	N/C	59	4.5	15	GND
16	4.5	38	4.5	60	5.0	16	4.7
17	3.9	39	N/C	61	4.5	All voltages are in V.	
18	4.5	40	4.5	62	4.5		
19	4.5	41	4.4	63	4.9		
20	N/C	42	9.0	64	4.5		

U BOARD TRANSISTOR TABLE

	B	C	E
Q1501	2.0	GND	2.7

J1509 5P

VIDEO 5

J1508 5P

VIDEO 6

J1507 2P

IC1505 M52055FP VIDEO SW

U
A/V SWITCH
TERMINAL BLOCK

9-965-937-01<DA4> U

Q1501	2.0	GND	2.7
Q1502	3.3	GND	4.0
Q1503	4.5	GND	5.2
Q1504	4.5	GND	5.2
Q1505	1.6	3.7	0.9
Q1506	4.4	8.3	3.8
Q1507	0.0	0.0	0.0
Q1508	0.0	0.0	GND
Q1509	0.0	4.9	GND
Q1510	0.0	0.0	GND
Q1511	8.5	0.0	9.0
Q1512	8.4	5.3	9.0
Q1513	3.8	8.4	3.2
Q1515	4.9	4.2	5.0
Q1516	0.6	0.1	GND
Q1518	0.0	4.9	GND
Q1519	5.0	0.0	0.0
Q1520	0.6	0.0	GND
Q1521	0.1	5.0	0.0
Q1522	5.0	0.0	0.0
Q1523	4.5	9.0	3.9
Q1524	6.5	9.0	3.9

All voltages are in V.

BM1C BOARD SCHEMATIC DIAGRAM (1 OF 2)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

IC101(1/8)
MD2406
JPEG ENG

IC101(4/8)
MD2406
JPEG ENG

IC101(3/8)
MD2406
JPEG ENG

3.3V

F-BSY

TO P2

TO P2   F-RST

IC102
SST39VF800A70E-1
FLASH ROM

Pin	Signal
/CCS1	97
/CCS0	115
/FWR	118
/FRD	122
FA19	117
FA18	116
FA17	119
FA16	121
FA15	120
FA14	123
FA13	126
FA12	125
FA11	124
FA10	127
FA9	130
FA8	129
FA7	128
FA6	131
FA5	134
FA4	135
FA3	138
FA2	136
FA1	139
FA0	142
FD15	137
FD14	141
FD13	140
FD12	143
FD11	146
FD10	145
FD9	144
FD8	147
FD7	150
FD6	149
FD5	148
FD4	152
FD3	153
FD2	155
FD1	154
FD0	158

R101 10 1/16W :CHIP
R102 10 1/16W :CHIP
R103 10 1/16W :CHIP

R110 10k :CHIP
R111 10k :CHIP
R112 10k :CHIP
R113 10k :CHIP

R189 0 :CHIP
R190 0 :CHIP

FB120 BK160BTS601
FB121 BK160BTS601
FB122 BK160BTS601

C118 0.1 16V B:CHIP
C103 0.01 25V B:CHIP

R161 22 1/16W :CHIP

IC101(1/8)
MD2406
JPEG ENG

Signal	Pin
Y7	23
Y6	26
Y5	27
Y4	30
Y3	31
Y2	34
Y1	35
Y0	38
C7	39
C6	42
C5	43
C4	46
C3	48
C2	49
C1	51
C0	50
VBLK	15
HBLK	18
FLD	14
/PXOE	19
PCLKO	22

/SCS 2
SCK 3
SI 4
SO 7
TXD 10
RXD 6
D+ 101
D- 102
USBP 103
(SCLK→) /REG 74
(GPO1→) /CE2 70
(GPO0→) /CE1 83
(SD1R→) /FOE 95
(GPO2→) /FWE 91

R137 0 1/16W :CHIP
R143 10k 1/16W :CHIP
R155 10k 1/16W :CHIP

3.3V

3.3V

FB102 BK160BTS601

RB101 100k*4 :1005
RB102 100k*4 :1005
RB103 100k*4 :1005
RB104 100k*4 :1005

C105 0.1 16V B:CHIP

FB124 BK160BTS601

RB112

16   17   18   19   20   21   22

YUV

RB107
22*4
:1005

VY7
VY6
VY5
VY4
VY3
VY2
VY1
VY0
VUV7
VUV6
VUV5
VUV4
VUV3
VUV2
VUV1
VUV0

RB108
22*4
:1005

RB109
22*4
:1005

RB110
22*4
:1005

VBLK

RB111
22*4
:1005

PXOE

t161
22
/16W
CHIP

YUV

3.3V

R217
10k
1/16W
:CHIP

Q110
DTC114EKA

MS_DIS

Pin	Signal
A1	GND
B1	GND
A2	VCLK
B2	VCLK
A3	GND
B3	GND
A4	VVS
B4	VVS
A5	VHS
B5	VHS
A6	GND
B6	GND
A7	VUV7
B7	VUV6
A8	VUV5
B8	VUV4
A9	VUV3
B9	VUV2
A10	VUV1
B10	VUV0
A11	VY7
B11	VY6
A12	VY5
B12	VY4
A13	VY3
B13	VY2
A14	VY1
B14	VY0
A15	GND
B15	GND
A16	GND
B16	GND
A17	MS+5V
B17	MS+5V
A18	MS+5V
B18	MS+5V
A19	GND
B19	GND
A20	NC
B20	AD_DIS
A21	NC
B21	MS_DIS
A22	NC
B22	SCL
A23	SDIN
B23	SDA
A24	SDIP
B24	TV_RST

VUV7
VUV6
VUV5
VUV4
VUV3
VUV2
VUV1
VUV0
VY7
VY6
VY5
VY4
VY3
VY2
VY1
VY0

5V

FB106
BLM41P750S

AD_DIS
FB141
BK1608TS601

MS_DIS
FB143
BK1608TS601

SCL_EX
MS_SDIN
SDA_EX
MS_SDI
FB149
BK1608TS601

TV_RST

(SD1R→) /FOE 95
(GPO2→) /FWE 91
(GPO3→) /IORD 84
(GPO4→) /IOWR 88
(GPO5→) RESET 75
(GP10→) /INPACT 87
(BS→) RDY/BSY 71
(GP11→) /WAIT 92
(EXCK→) WP 98
(GP12→) /VS1 94
(GP13→) /CD2 86
(INS→) /CD1 82
(GP14→) BVD2 90
(SD10→) BVD1 78

J

K

L

M

3.3V

RB115
10k*4
:1005

R238 0 1/16W :CHIP
R239 10k 1/16W :CHIP   GND

R240 10k 1/16W :CHIP

3.3V

INS_BC

3.3V

3.3V

D101
HN1D03FU

D102
HN1D03FU

RB112
22*4
:1005

C151
0.1
16V
B:CHIP

3.3V

FB123
BK1608TS601

C148
0.1
16V
B:CHIP

MS_SCLK

MS_BS

MS_SDIR

MS_SDIO

— 139 —

BM1C P1
MEMORY STICK
DECODER BOARD

Pin	Signal		Pin	Signal
	SDA_EX		B23	SDA
	MS_SDI	A24	SDIP
	TV_RST	B24	TV_RST
		A25	GND
	POWER_INT	B25	POWER_INT
	MS_SCLKN	A26	SCLKN
	MS_SCLK	B26	SCKO BC
	MS_SDION	A27	SDON
	MS_SDIO	B27	SDIO BC
	MS_BSN	A28	BSN
	MS_BS	B28	BS BC
	MS_SDIRN	A29	SDIRN
	MS_SDIR	B29	SDIR BC
		A30	NC
	INS_BC	B30	INS BC

FB149
BK1608T5601

C162
10 16V :HT-CP

L106
10µH
:CHIP

C163
10
16V
:HT-CP

L107
100µH
:CHIP

CN104
60P
WHT

TO B BOARD
CN3601

9-965-937-01<DA4>BMC1 P1

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

16	17	18	19	20

IC104
BA033FP-E2
3.3V REG

5V

3.3V

I G O

:106
0.1
25V
CHIP

C110
10
16V
:HT-CP

C107
23
6.3V
:HT-CP

C108
0.1
25V
F:CHIP

IC111
BA18BC0FP-E2
1.8V REG

3.3V

1.8V

VCC OUT
GND

C126
0.1
16V
B:CHIP

C164
22
6.3V
:HT-CP

3.3V

FB109
BK1608TS601

IC101(7/8)
MD2406
JPEG ENG

C135	0.01	25V	B:CHIP	24	VDDP7
C134	0.01	25V	B:CHIP	52	VDDP6
C133	0.01	25V	B:CHIP	61	VDDP5
C132	0.01	25V	B:CHIP	104	VDDP4
C131	0.01	25V	B:CHIP	113	VDDP3
C130	0.01	25V	B:CHIP	156	VDDP2
C129	0.01	25V	B:CHIP	189	VDDP1
C128	0.01	25V	B:CHIP	208	VDDP0

1	GNDP7
25	GNDP6
53	GNDP5
62	GNDP4
105	GNDP3
114	GNDP2
157	GNDP1
185	GNDP0

1.8V

FB103
BK1608TS601

C136	0.1	16V	B:CHIP	20	VDDC3
C137	0.1	16V	B:CHIP	79	VDDC2
C138	0.1	16V	B:CHIP	132	VDDC1
C139	0.1	16V	B:CHIP	177	VDDC0

21	GNDC3
81	GNDC2
133	GNDC1
181	GNDC0

IC101(8/8)
MD2406
JPEG ENG

193	NC10
173	NC9
169	NC8
164	NC7
29	NC6
33	NC5
37	NC4
41	NC3
112	NC2
60	NC1
109	NC0

R158
0 :CHIP

IC101(2/8)
MD2406
JPEG ENG

MD2406
JPEG ENG

Pin	Signal
186	SDCLK
190	CKE
179	/DQML
182	/DQMU
180	/WE
183	/CAS
187	/RAS
162	LD0
151	LD1
161	LD2
165	LD3
168	LD4
171	LD5
172	LD6
176	LD7
178	UD0
175	UD1
174	UD2
170	UD3
167	UD4
163	UD5
166	UD6
160	UD7
199	MA0
196	MA1
204	MA2
207	MA3
206	MA4
200	MA5
205	MA6
202	MA7
192	MA8
198	MA9
195	MA10
194	MA11
184	MA12
191	MA13
188	MA14

R158
0 :CHIP

DQML
WE
CAS
RAS

3.3V
FB104
BK160BTS601

IC108
MT48LC8M16A2TG75
-Y95WT
SDRAM

FB110
BK160BTS601

C154
0.1
16V
B:CHIP

FB137
BK160BTS601

LD0
LD1   RB122
LD2   47*4
LD3   :1005
LD4
LD5   RB121
LD6   47*4
LD7   :1005

UD0
UD1   RB124
UD2   47*4
UD3   :1005
UD4
UD5   RB123
UD6   47*4
UD7   :1005

VCC   VSS
DQ0   DQ15   UD7
VCCQ VSSQ
DQ1   DQ14   UD6
DQ2   DQ13   UD5
VSSQ VCCQ
DQ3   DQ12   UD4
DQ4   DQ11   UD3
VCCQ VSSQ
DQ5   DQ10   UD2
DQS   DQ9   UD1
VSSQ VCCQ
DQ7   DQ8   UD0
VCC   VSS
LDQM NC
/WE   UDQM
/CAS CLK
/RAS CKE
/CS   NC
BA0   A11   MA11
BA1   A9   MA9
A10   A8   MA8
A0   A7   MA7
A1   A6   MA6
A2   A5   MA5
A3   A4   MA4
VCC   VSS

MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
MA11
MA12
MA13

C144 C145 C146 C147
0.01 0.01 0.01 0.01
25V   25V   25V   25V
B:CHIP B:CHIP B:CHIP B:CHIP

C141 C142
0.01 0.01
25V   25V
B:CHIP B:CHIP

BM1C P2
PEG ENG

9-965-937-01<DA4>BMC1 P2

UD BOARD SCHEMATIC DIAGRAM

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

16 17 18 19 20

UD BOARD WAVEFORMS

①	②	③
1.3 Vp-p (H)	1.3 Vp-p (H)	1.5 Vp-p (H)

3.3V

IC7002
PQ07VZ012ZP
3.3V REG

5V

C7004
0.01µF
25V
:CHIP

R7003
1k

R7004
1.6k

R7007
1k

L7002
10µH

C7005
0.01µF
25V
:CHIP

C7006
10µF
16V

2.5V

IC7003
PQ07VZ012ZP
2.5V REG

C7008
0.01µF
25V
:CHIP

R7012
1k

R7013
1k

R7014
1k

L7001
10µH

C7011
0.01µF
25V
:CHIP

C7012
10µF
16V

1	5V
2	RESET
3	VGA
4	MUTE
5	GND
6	PR
7	GND
8	PB
9	GND
10	Y
11	GND
12	ASPECT
13	SETUP
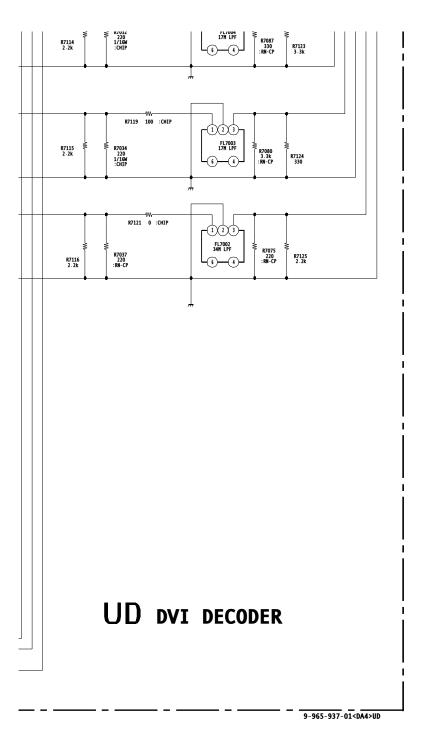
DVI7R

DVI7B

DVI.Y

CN7002
11P
:S-MICRO

TO M CN2304

R7117 100 :CHIP

R7114
2.2k

R7032
220
1/16W
:CHIP

FL7004
17M LPF

R7087
330
:RN-CP

R7123
3.3k

R7114
2.2k

R7032
220
1/16W
:CHIP

FL7004
17M LPF

R7087
330
:RN-CP

R7123
3.3k

R7119 100 :CHIP

R7115
2.2k

R7034
220
1/16W
:CHIP

FL7003
17M LPF

R7080
3.3k
:RN-CP

R7124
330

R7121 0 :CHIP

R7116
2.2k

R7037
220
:RN-CP

FL7002
34M LPF

R7075
220
:RN-CP

R7125
2.2k

UD DVI DECODER

A BOARD SCHEMATIC DIAGRAM (1 OF 2)

A BOARD WAVEFORM

1.9 Vp-p (H)

A BOARD IC VOLTAGE LIST
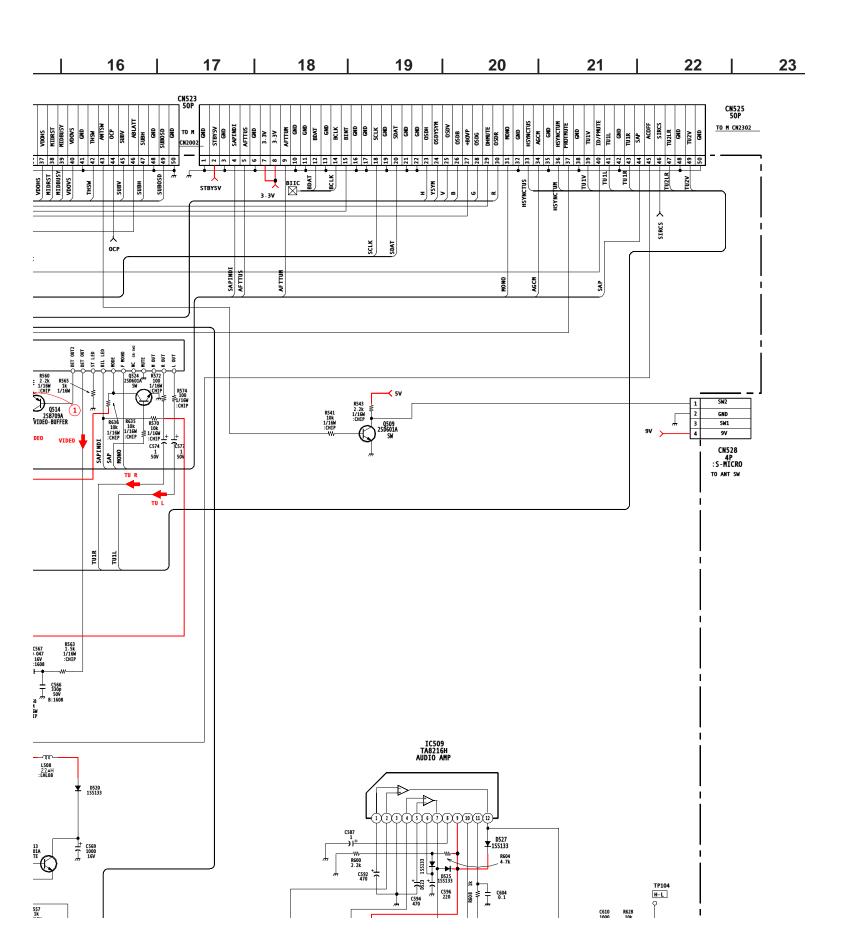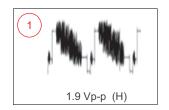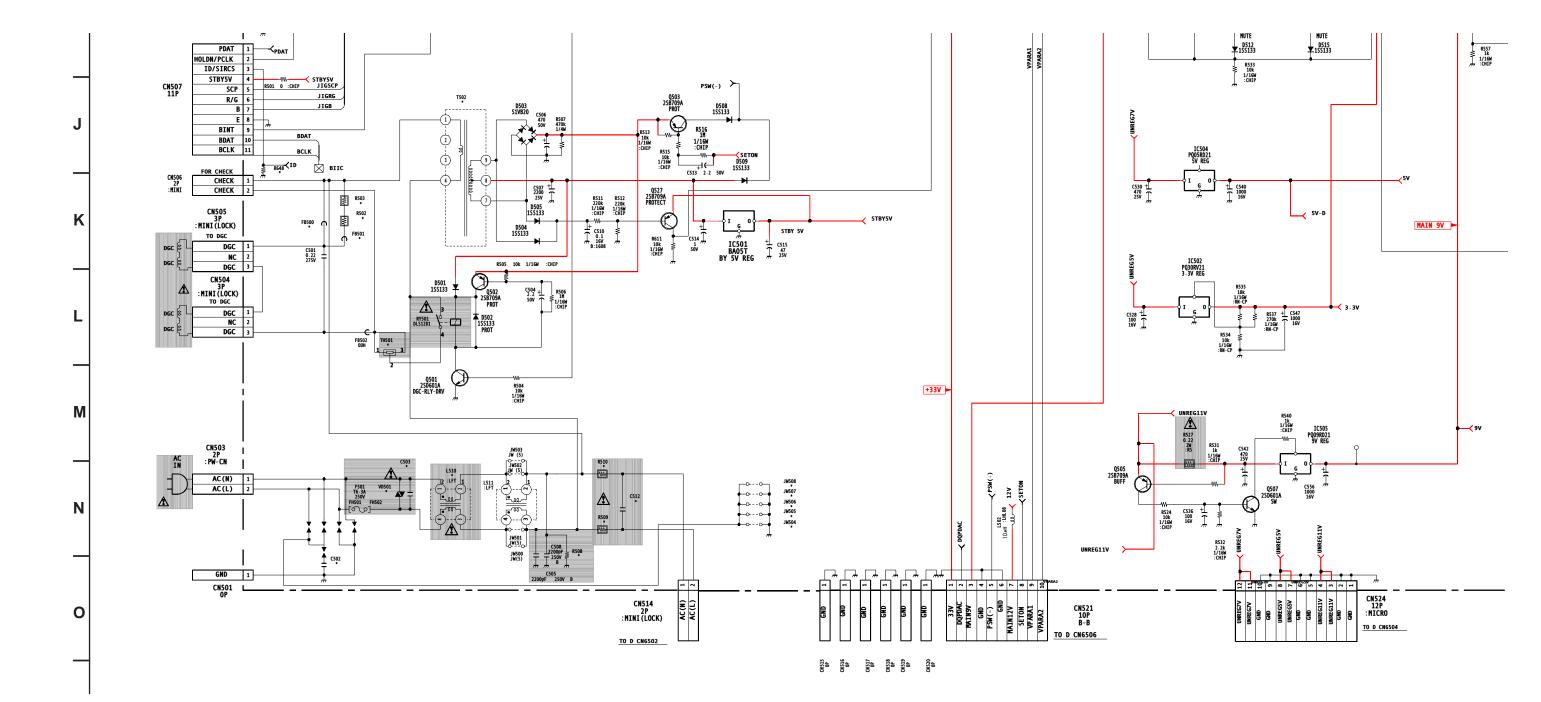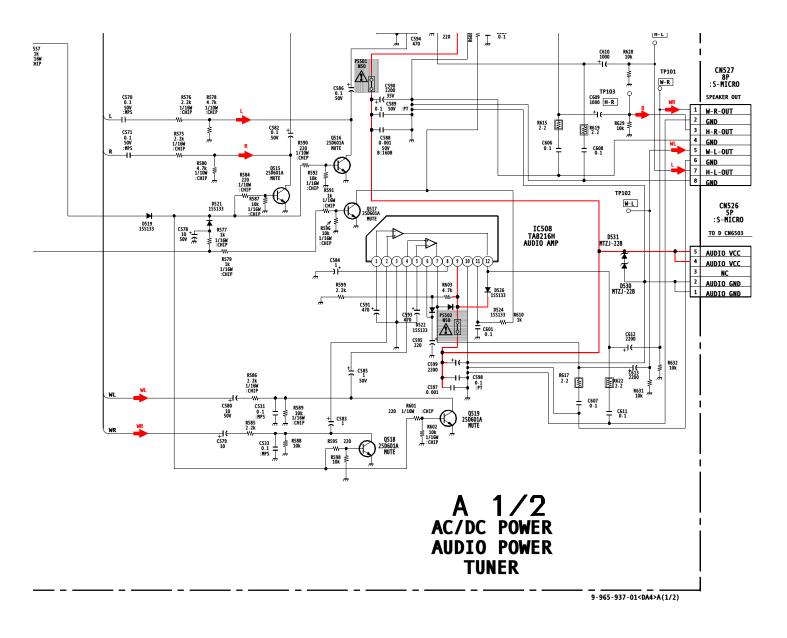
IC501		IC508		8	5.1	IC903	
PIN	VOLT	PIN	VOLT	9	24.0	PIN	VOLT
I	7.0	1	1.6	10	0.0	1	4.9
O	5.0	2	0.1	11	4.4	2	4.9
GND	GND	3	GND	12	10.7	3	4.9
IC502		4	0.1	IC900		4	4.9
PIN	VOLT	5	1.6	PIN	VOLT	5	N/C
I	5.0	6	7.9	1	3.3	6	5.0
O	3.3	7	11.0	2	3.3	7	5.0
GND	GND	8	5.1	3	0.1	8	5.0
4	3.4	9	24.0	4	-15.7	9	5.0
IC504		10	0.0	5	GND	10	12.0
PIN	VOLT	11	4.4	6	15.3	11	4.5
I	7.0	12	10.6	7	N/C	12	5.0
O	5.0	IC509		8	3.3	13	5.0
GND	GND	PIN	VOLT	9	GND	14	1.2
4	N/C	1	1.6	IC901		15	5.0
IC505		2	0.1	PIN	VOLT	16	4.6
PIN	VOLT	3	GND	I	11.0	17	4.6
I	11.0	4	0.1	O	5.0	18	GND
O	9.0	5	1.6	GND	GND	All voltages are in V.	
GND	GND	6	8.0				
4	2.3	7	11.0				

A BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q501	0.1	19.4	GND
Q502	21.3	19.4	21.3
Q503	21.2	0.2	21.3
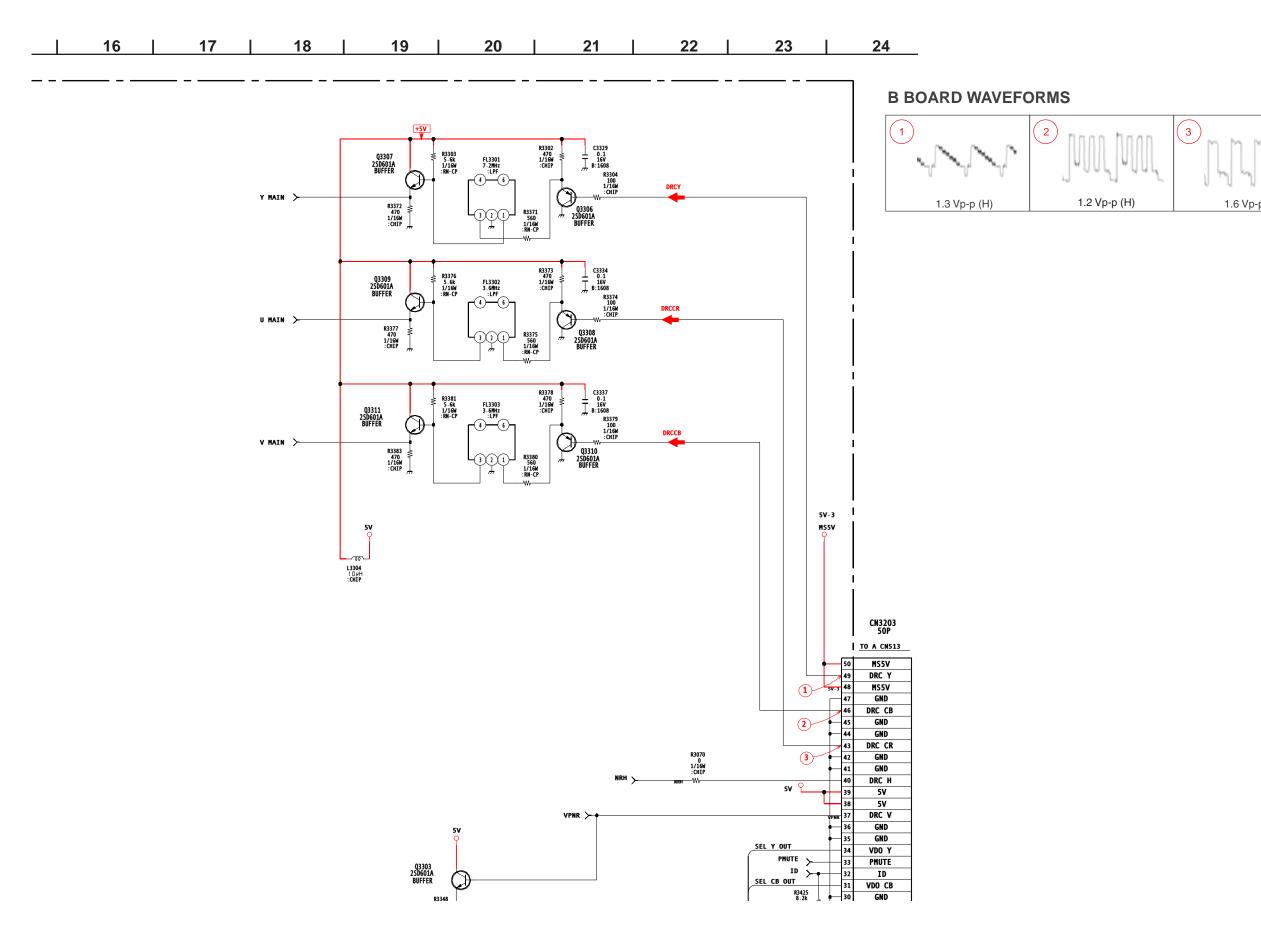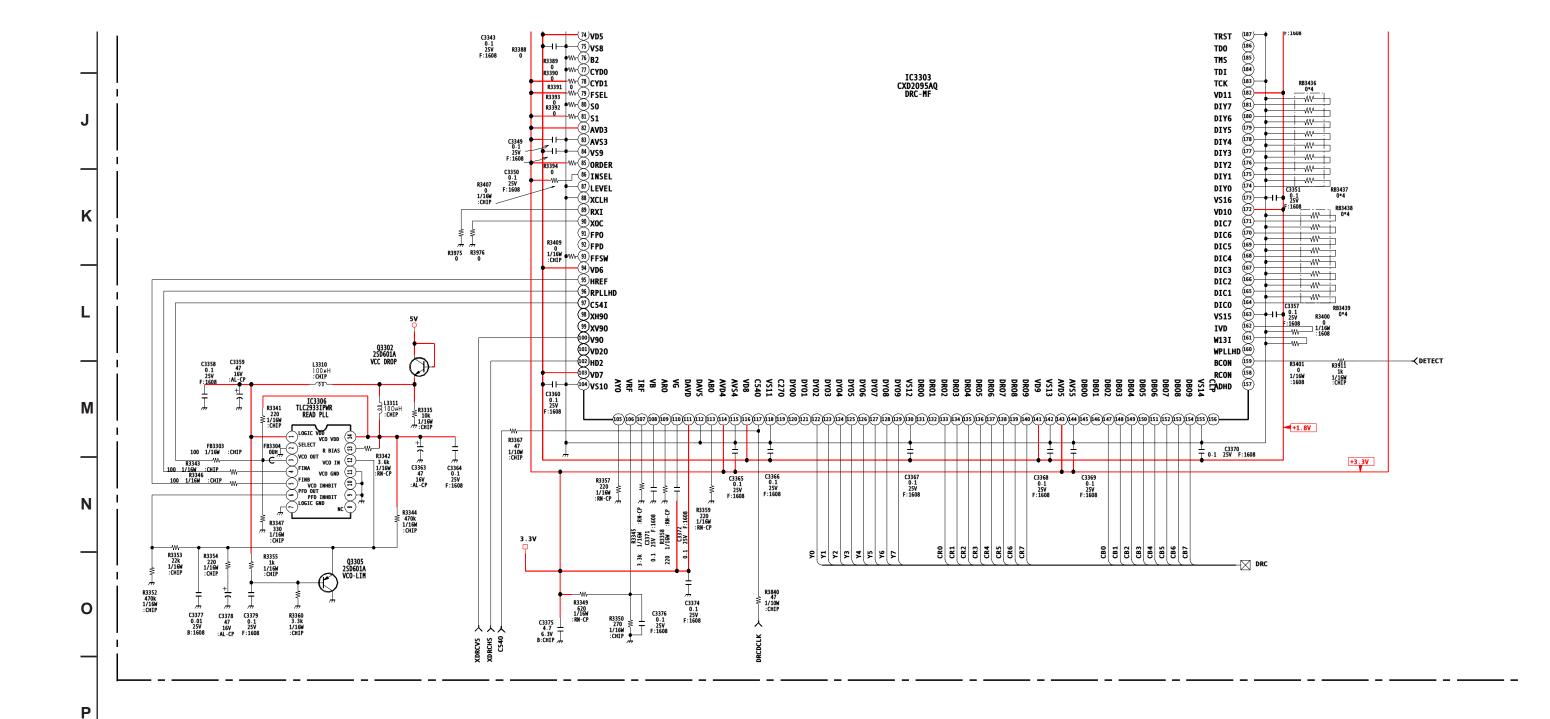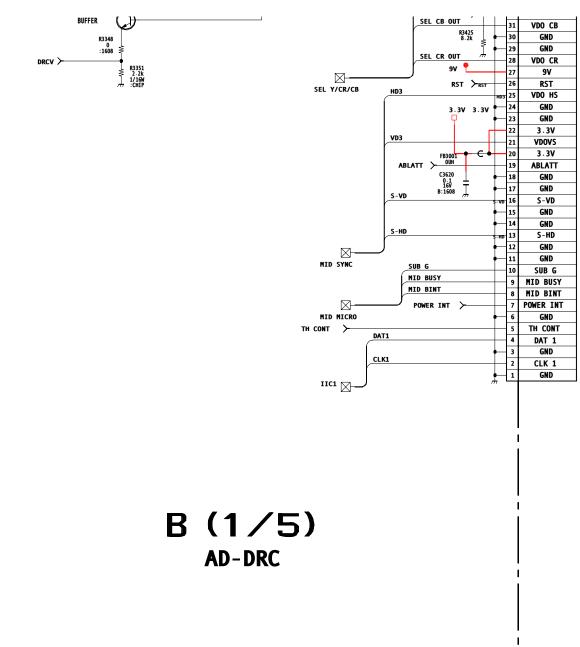
Q503	21.2	0.2	21.3
Q504	3.9	GND	4.5
Q505	10.0	0.1	11.0
Q506	3.5	0.5	3.3
Q507	0.1	2.3	GND
Q508	10.5	0.3	0.0
Q509	0.7	0.1	GND
Q510	12.0	0.0	12.0
Q511	0.1	7.5	GND
Q512	3.3	0.5	3.3
Q513	0.0	9.0	0.0
Q514	5.9	GND	6.5
Q515	0.0	0.0	GND
Q516	0.0	0.0	GND
Q517	0.0	4.4	GND
Q518	0.0	0.0	GND
Q519	0.0	0.0	GND
Q524	0.7	0.1	GND
Q527	9.8	0.0	5.0

All voltages are in V.

A 1/2
AC/DC POWER
AUDIO POWER
TUNER

9-965-937-01<DA4>A(1/2)

16   17   18   19   20   21   22   23   24

B BOARD WAVEFORMS

| 1.3 Vp-p (H) | 1.2 Vp-p (H) | 1.6 Vp-p (H) |

BUFFER

DRCV

R3348
0
:1608

R3351
2.2k
1/16W
:CHIP

SEL Y/CR/CB

SEL CB OUT
R3425
8.2k

SEL CR OUT

9V

RST   RST

HD3

3.3V 3.3V

VD3

ABLATT

FB3001
0UH

C3620
0.1
16V
B:1608

S-VD

S-HD

MID SYNC

SUB G

MID BUSY

MID BINT

POWER INT

MID MICRO

TH CONT

DAT1

CLK1

IIC1

31	VDO CB
30	GND
29	GND
28	VDO CR
27	9V
26	RST
25	VDO HS
24	GND
23	GND
22	3.3V
21	VDOVS
20	3.3V
19	ABLATT
18	GND
17	GND
16	S-VD
15	GND
14	GND
13	S-HD
12	GND
11	GND
10	SUB G
9	MID BUSY
8	MID BINT
7	POWER INT
6	GND
5	TH CONT
4	DAT 1
3	GND
2	CLK 1
1	GND

B (1/5)

AD-DRC

9-965-937-01<DA4> B(1/5)

IC3402
MT48LC2M32B2TG
64M-SDRAM

B (2/5)

MID-XA

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

CN2803
SP
:S-MICRO

TO W CN9102

5V
GND
VR
W/S
V-PIN
1 2 3 4 5

MID OUT

MID VS

MID HS
MID CR
MID CB
MID Y

MID YS

5V-1 5V-2

5V 5V

5V

IIC1

CLK1
DAT1

+9V

L2801
10µH
:LB2016

C2802
0.1
25V
F:1608

C2801
100
16V
:AL-CP

R2880
1.5k
1/10W

R2805
1.5k
1/10W

R2801
6.8k
1/16W
:CHIP

R2803
4.7k
1/16W
:CHIP

C2804
47p
50V
CH:CHIP

C2806
0.47
10V
B:1608

R2922
0
1/16W

R2806
3.3M
1/16W
:CHIP

R2804
47
1/16W
:CHIP

R2881
1.5k
1/10W

C2805
0.01
25V
B

Q2801
2SA1226
BUFF

R2808
4.7k
1/16W
:CHIP

12k 1/16W :CHIP

C2807
100
1/16W
:CHIP

C2808
4.7
50V
:AL-CP

R2809
2.2k
1/16W
:CHIP

R2810
2.2k
1/16W
:CHIP

Q2802
2SB709A
BUFF

L2811
10µH

C2811
0.1
25V
F:1608

C2809
0.1
25V
:AL-CP 100 16V :AL-CP

C2813
0.1 16V B: CHIP

R2812
4.7k
1/16W
RN-CP

C2812 0.47 10V B:1608

C2815 0.1 16V B: CHIP
C2814 16V
C2810 0.1 16V B: CHIP

R2811
100
1/16W
:CHIP

Q2803
2SB709
BUFF

C2816
0.1 16V B: CHIP

R2813
10k
1/16W
:CHIP

C2817
0.1
16V
B: CHIP

CB

CR

Y

R G B

OSD R OSD G OSD B YSYM

R2815
10k
1/10W

R2868
100
1/16W
:CHIP

R2816
100k
1/16W
:CHIP

F1 F0 CF_IN CB_IN Y_IN VCC5S IREF_YC BPH CLP_C VPLOUT YE_OFF DPDT_OFF PABL_FIL R_IN G_IN B_IN GND_SIG YSYM GND_OUT
51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33

R2817
100
1/16W
:CHIP

C2818
0.001
50V
B: CHIP

R2818
100
1/16W
:CHIP

R2819
100
1/16W
:CHIP

R2820
100
1/16W
:CHIP

52 SDA
53 SCL
54 SCP
55 HS_IN
56 VPROT
57 HPROT
58 VCC5H
59 HD_TC
60 HVCOMP_IN
61 IREF_HV
62 AFC_FIL
63 CERA
64 L2_FIL

R2823
47k
1/16W
:CHIP

Q2804
2SD601A
MUTE-SW

P.1

C2820
0.01
25V
B: CHIP

R2821
100 1/16W :CHIP

R2824
100
1/16W
:CHIP

C2826
0.1
25V
F:1608

R2825
47k 1/16W :CHIP

R2901
4.7k
1/16W
:CHIP

R2900
4.7k
1/16W
:CHIP

Q2822
2SD601A
INVERTER

IC2801
CXA2170Q
Y/C/CRT DRIVE

R2out 32
R_SH 31
G_OUT 30
G_SH 29
B_OUT 28
B_SH 27
VCC_OUT 26
PRE_RGB 25
IK_IN 24
ABL_FIL 23
ABL_IN 22
VCC9 21
VTIM 20

C2819
0.1 16V B: CHIP

C2821
0.1 16V B: CHIP

C2822
0.1 16V B: CHIP

C2827
0.1
25V
F:1608

C2824
100
16V
:AL-CP

L2804
10µH
:LB2016

R G B

R2902
4.7k
1/16W
:CHIP

Q2823
2SD601A
INVERTER

R2826
10k
1/16W
:RN-CP

C2828
8.2k
1/16W
:CHIP

C2829
0.0047
50V
B: CHIP

C2823
100
16V
:AL-CP

C2825
1000p 50V B:1608

L2803
10µH
:LB2016

L2805 10µH :LB2016

VCC9 21

R2827
4.7k
1/16W
:CHIP

R2829
2.2k
1/16W
:CHIP

Q2805
2SB709
ABL-S

C2830
4.7
50V
:AL-CP

C2831
100
16V
:AL-CP

C2834
0.47
10V
B:1608

C2833
0.22
16V
B:1608

C2835
0.01
25V
B: CHIP

R2830
560
1/16W
:CHIP

R2831
2.2k
1/16W
:CHIP

HP_IN V_SINE VREG5 GND_H HL_DRV VS_IN HC_PARA MP_PARA GND_V DF_PARA EW_DRV APARA2 APARA1 V_AGC V_OSC VSAM0 VSAM1 V_DRV- V_DRV+
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

X2801
2-7MHz

R2833
100
1/16W
:CHIP

C2836
0.1
25V
F:1608

R2832
100
1/16W
:CHIP

R2835
100 1/16W :CHIP

C2837
100
16V
:AL-CP

R2842
100
1/16W
:CHIP

R2843
100
1/16W
:CHIP

CN2804
40P

TO A CN510

GND	40	
V SINE	39	
GND	38	V PARA2
V PARA2	37	V PARA1
V PARA1	36	M PIN
GND	35	EW DRV
MP PARA	34	DF PARA
EW PARA	33	H CENT
GND	32	V DRV-
DF PARA	31	V DRV+
HC PARA	30	H DRV
GND	29	
V DRV-	28	
V DRV+	27	

L2806
10µH
:LB2016

R2838
100
1/16W
:CHIP

R2844
2.7k
1/16W
:CHIP

R2834 100 1/16W :CHIP
R2836 100 1/16W :CHIP
R2837 100 1/16W :CHIP
C2840 0.1 16V B: CHIP
C2841 0.1 16V B: CHIP

R2847
100
1/16W
:CHIP

C2843
0.1
25V
F:1608

C2842
100
16V
:AL-CP

Q2807
2SD601A
H DR

R2845
100
1/16W
:CHIP

R2848

+9V

| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

B BOARD WAVEFORMS

①	②	③
1.5 Vp-p (V)	1.7 Vp-p (V).	2.9 Vp-p (H)
④	⑤	⑥
3.0 Vp-p (V)	2.3 Vp-p (V).	2.4 Vp-p (H)

C2851
0.1
25V
F:1608

C2850
100
16V
:AL-CP

+9V

L2807
10μH
:LB2016

ROUT
TP88

R

G

B

BOUT
TP87

Q2803
2SB709A
BUFF

R2865
2.2k
1/16W
:CHIP

R2883 2.2k 1/16W :CHIP
R2884 2.2k 1/16W :CHIP
R2885 2.2k 1/16W :CHIP
R2886 2.2k :CHIP
R2887 2.2k 1/16W
R2889 2.2k 1/16W :CHIP
R2890 2.2k 1/16W :CHIP
R2891 2.2k 1/16W :CHIP
R2892 2.2k :CHIP
R2893 2.2k
R2894 2.2k 1/16W :CHIP
R2895 2.2k 1/16W :CHIP
R2896 2.2k 1/16W :CHIP
R2897 2.2k :CHIP
R2898 2.2k

R2907
68
:CHIP

R2908
68
:CHIP

R2909
68
:CHIP

R2866
2.2k
1/16W
:CHIP

Q2811
2SA1226
BUFF

R2868
100
1/16W
:CHIP

R2869
100
1/16W
:CHIP

Q2812
2SA1226
BUFF

R2867
2.2k
1/16W
:CHIP

R2870
100
1/16W
:CHIP

Q2813
2SA1226
BUFF

B

C2849
0.0022
50V
B:CHIP

R2862
100
1/16W
:CHIP

C2828
0.068 16V B:CHIP

R2921
0
1/16W
:CHIP

R2911
0

P.4
ID

PMUTE
P.1

Q2805
2SB709A
ABL-SW

Q2806
2SD601A
ABL-SW

R2849
10k
1/16W
:CHIP

C2845

+9V

+9V

1	R DRV
2	GND
3	G DRV
4	GND
5	B DRV
6	GND
7	12V
8	IK
9	GND/SABL
10	PMUTE
11	ID

CN2805
11P
S-MICRO
:WHT

TO CX CN9001

④
⑤
⑥

V DRV- 28
V DRV+ 27
V TIM 26
ABL 25
GND 24
H PLS 23
GND 22
H PROT 21
V PROT 20
9V 19
H DRV 18
GND 17
5V 16
GND 15
JIG B 14
PROT MUTE 13
JIG RG 12
GND 11
SCP 10
OSD H 9
OSD YSYM 8
OSD V 7
OSD B 6
12V 5
OSD G 4
GND 3
OSD R 2
GND 1

J
K
L
M
N

V DRV-
V DRV+
H DRV
H CENT
M PIN
DF PARA
EW DRV
V PARA2
V PARA1
V DRV-
V DRV+

H DRV

9V

YSYM
OSD B
OSD G
OSD R

③

R2848
2.2k
1/16W
:CHIP

R2846
3.3k
1/16W
:CHIP

R2839 100
R2840 100
R2841 100

R2850
100
1/16W
:CHIP

R2851
330
1/16W
:CHIP

100
1/16W
:CHIP

100
1/16W
:CHIP

+12V

B (3/5)

CRT DRIVE

16	17	18	19	20	21	22

5V-1   5V-2

+5V

L3011
10µH

R3078
330
1/16W
:CHIP

R3079
330
1/16W
:CHIP

Q3009
2SD601A
VCC-DROP

C3615
10
16V
:AL-CP

C3037
0.1
16V
B:1608

C3613
100
6.3V
:AL-CP

C3614
0.1
25V
F:1608

L3009
10µH

D3002
UDZSTE-173.9B

U MAIN

VPNR

L3010
10µH

R3077
47k
1/16W
:CHIP

FB3002
0
1/16W
:CHIP

R3075
22
1/16W

IC3608
TLC2932IPWR
WRITE PLL

C3619
100
6.3V
:AL-CP

LOGICVDD   VCO
                VDD

SELECT   RBIAS

R3074
3.3k
1/16W
RM-CP

VCOOUT   VCO IN

R3066
100
1/16W
:CHIP

FINA   VCO GND

C3622
0.1
25V
F:1608

R3076   0 1/16W   :CHIP

FINB   VCO
       INHIBIT

R3064
0
1/16W
:CHIP

Q3008
2SD601A
BUFF

PFDOUT   PFD
         INHIBIT

D63
0
16W
HIP

LOGIC
GND   NC

NRH

R3073
680k
1/16W
:CHIP

R3093
0
1/16W
:CHIP

R3069
820
1/16W
:CHIP

R3071
1k
1/16W
:CHIP

R3072
680k
1/16W
:CHIP

C3617
0.01
25V
B:1608

08

R3068
2.2k
1/16W
:CHIP

C3618
4.7
6.3V
B:CHIP

C3036
0.1
16V
B:1608

DRCCB

V MAIN

DRCY

Y MAIN

C3040
0.1
16V
B: 1608

B (4/5)

J

K

+5V

+3.3V

FL3002
3.3V   3.3V   CKD510JB1A105ST
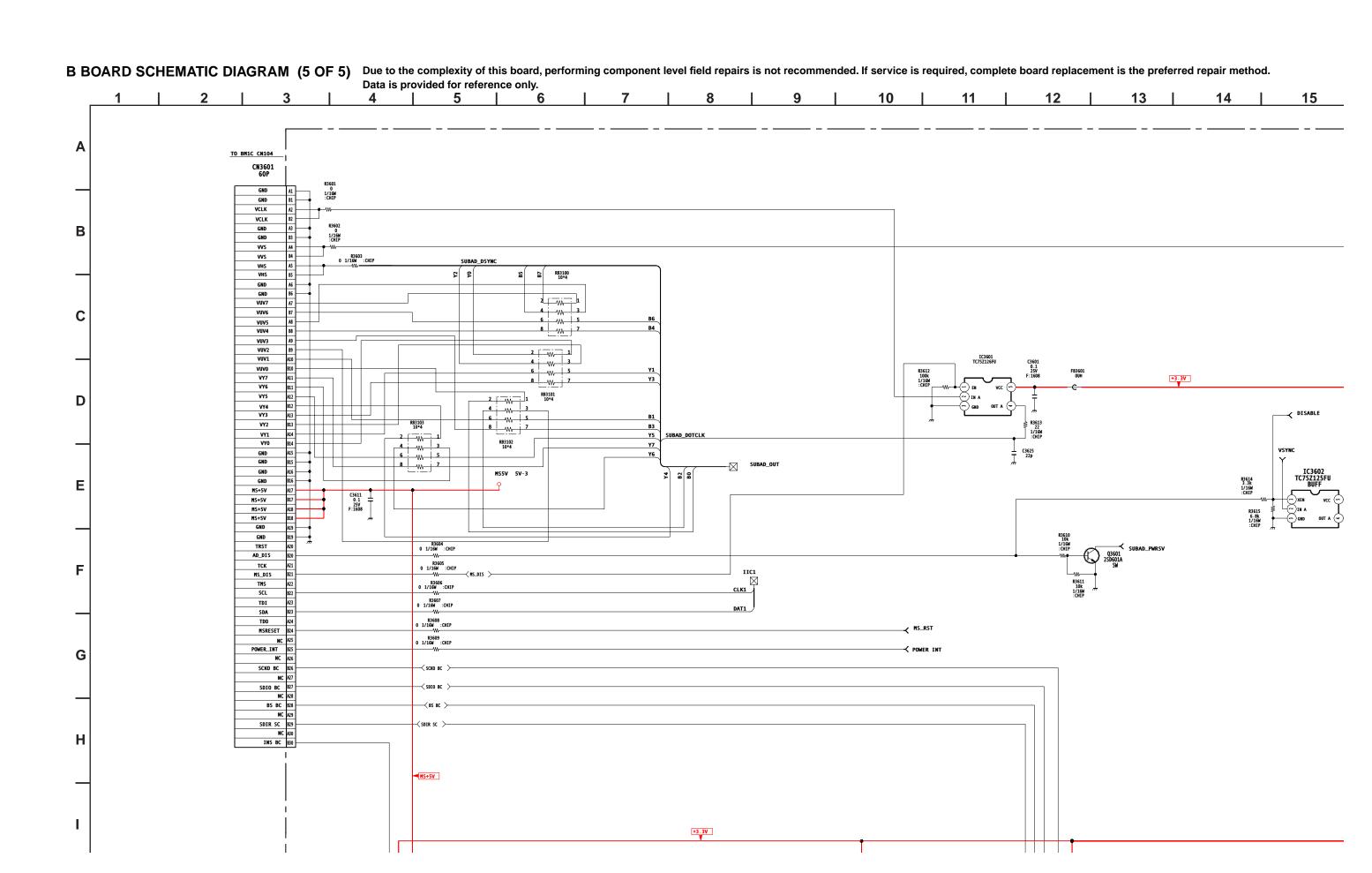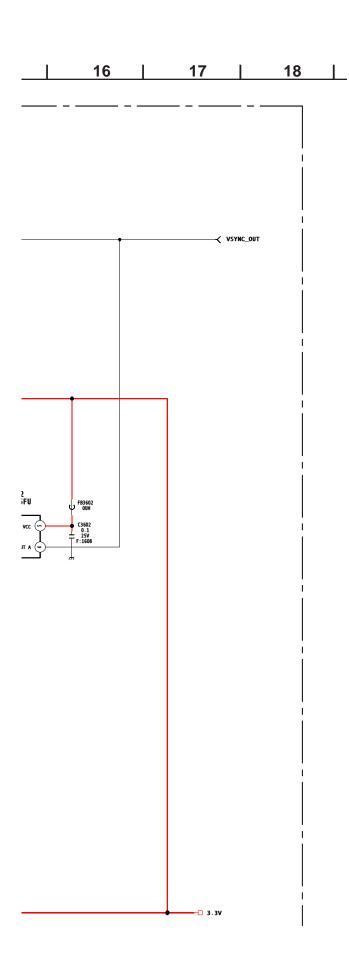
EMI

C3042
330
6.3V
AL-CP

C3038
0.01
25V
B:1608

IC3002
NJM2391DL1-33
3.3V REG.
VCC   OUT
GND

C3097
100
6.3V
AL-CP

C3098
0.01
25V
B:1608

C3095
100
6.3V
AL-CP

C3008
47 16V   :AL-CP

C3009
0.01   25V   B:1608

B (4/5)

A/D (DNR)

9-965-937-01<DA4> B(4/5)

| 16 | 17 | 18 |

VSYNC_OUT

FB3602
0UH

VCC

C3602
0.1
25V
F:1608

FB3602
0UH

C3602
0.1
25V
F:1608

:FU

JT A

3.3V

□ 3.3V

(5/5)

rential Input
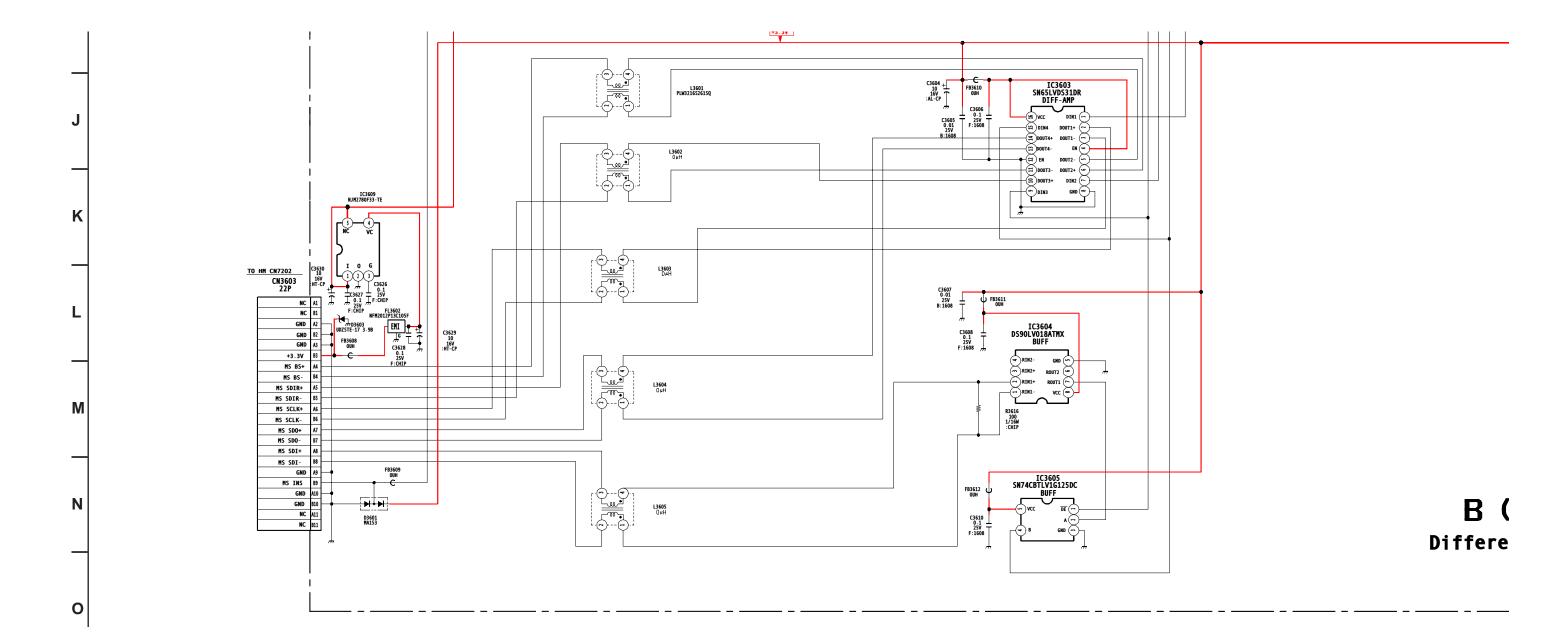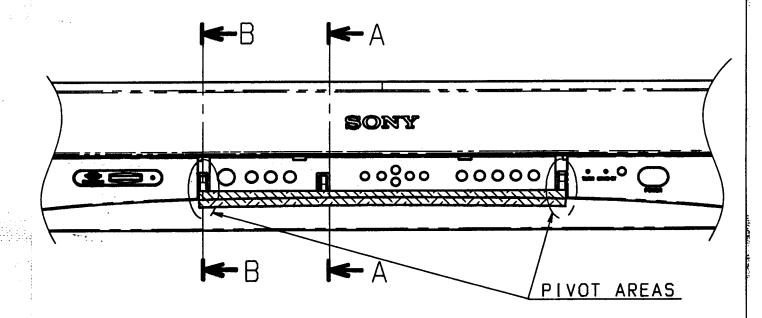
CONTROL DOOR
INSTALLATION AND DISASSEMBLY INSTRUCTIONS

FOR MODELS:
KV-32HS510
KV-34DRC510
KV-36HS510
KV-38DRC510

INSTALLATION OF HS DOOR
STEP ①

B ← A

SONY

B ← A

PIVOT AREAS

BEZNET

DOOR DAMPER FOOT
DOOR DAMPER

3X12 SCREW(1)

A-A
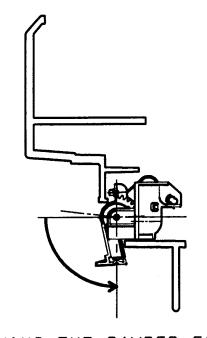
- INSERT DOOR DAMPER WITH THE DOOR DAMPER FOOT IN
  THE UP POSITION (SEE ILLUST. A-A).
- SECURE WITH A 3x12 SCREW.
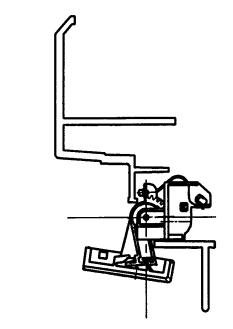
INSTALLATION OF HS DOOR
STEP ②
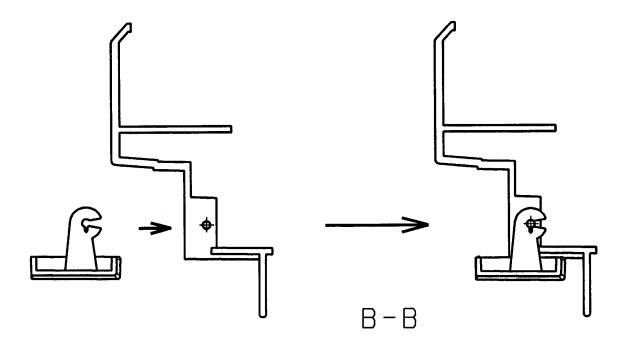
SWING THE DAMPER FOOT
TO THE DOWN POSITION.

STEP ③
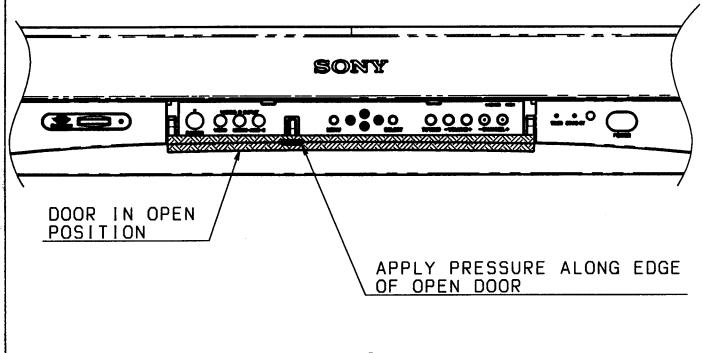
- ALIGN DOOR HINGES WITH
  PIVOTS ON BEZNET.
- PUT THE DAMPER FOOT
  INTO THE DOOR'S HOOK.

STEP ④

B-B
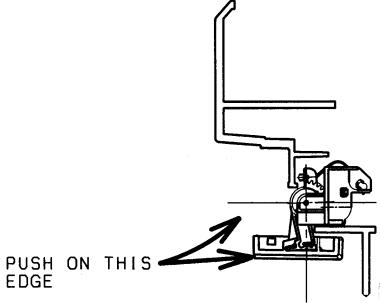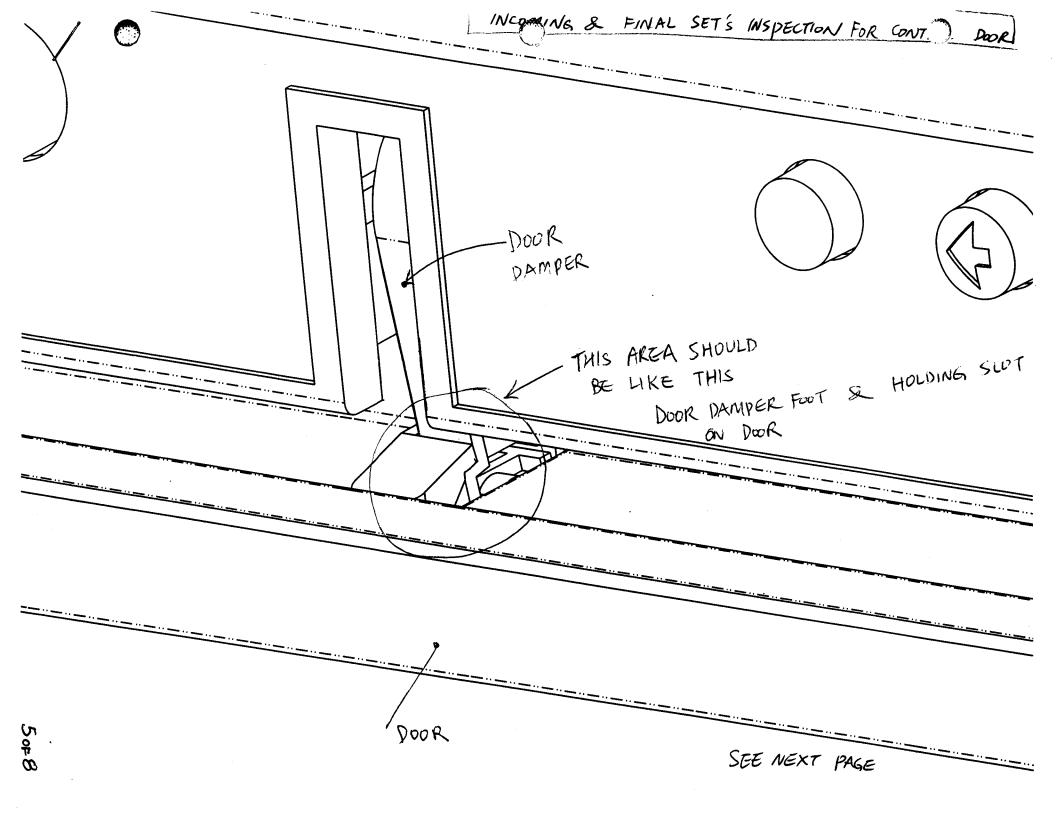
PUSH BOTH DOOR HINGES ONTO THE BEZNET'S DOOR
PIVOTS. PUSH DOWN UNTIL YOU CAN HEAR THEM
'CLICK' INTO PLACE.

INSTALLATION OF HS DOOR
STEP ⑤

DOOR IN OPEN
POSITION

APPLY PRESSURE ALONG EDGE
OF OPEN DOOR

PUSH ON THIS
EDGE
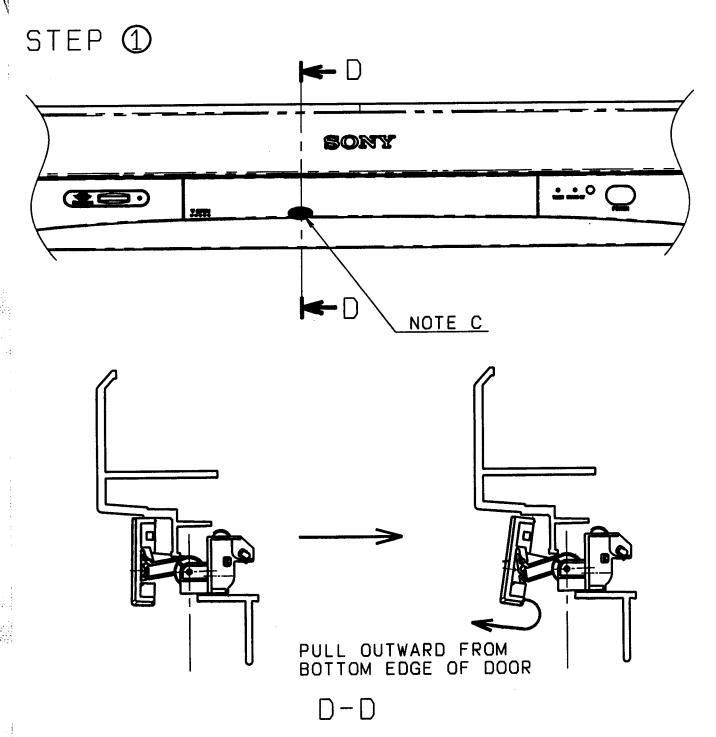
TO ENGAGE THE DOOR DAMPER INTO THE DOOR, PUSH FORWARD
WHILE PUSHING UP AT THE SAME TIME. DO THIS UNTIL THERE
IS A 'CLICK' HEARD FROM THE DAMPER FOOT BEING SEATED
INTO THE DOOR.

DOOR DAMPER

THIS AREA SHOULD BE LIKE THIS

DOOR DAMPER FOOT & HOLDING SLOT ON DOOR

DOOR

DAMPER'S FOOT

DAMPER FOOT
HOLDER
(ON DOOR)

THIS AREA MUST BE
INSTALLED PROPERLY FOR
SMOOTH DOOR MOVEMENT

6 OF 8

DISASSEMBLY OF HS DOOR

STEP ①

NOTE C

PULL OUTWARD FROM
BOTTOM EDGE OF DOOR

D-D
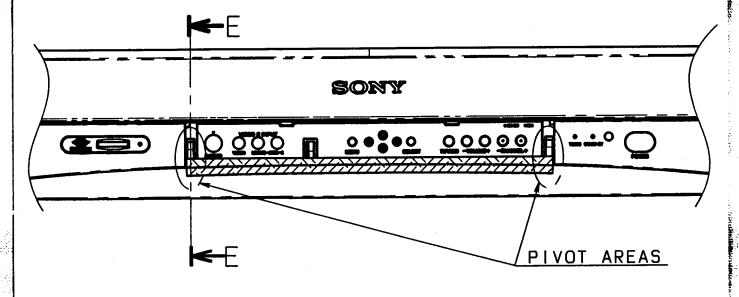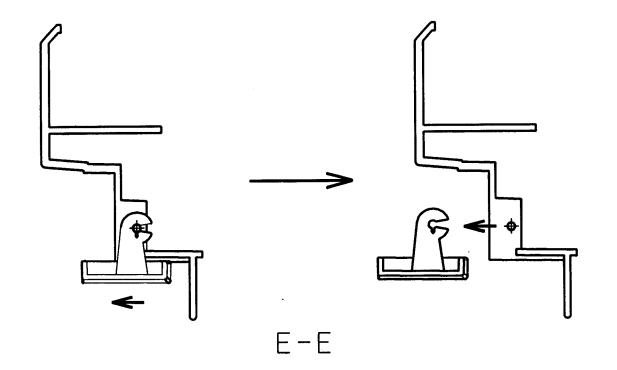
NOTE C:

WHEN DOOR IS IN THE CLOSED POSITION. PULL AT HATCHED
(SEE ABOVE ILLUSTRATION)AREA FORWARD. PULL LIGHTLY
UNTIL A 'CLICK' SOUND IS HEARD. THIS WILL MEAN THAT
THE DOOR HAS BEEN SEPARATED FROM THE DOOR DAMPER.

DISASSEMBLY OF HS DOOR
STEP ②

PIVOT AREAS

E-E

- OPEN DOOR.
- PULL DOOR HINGE AREAS FORWARD
  (AWAY FROM BEZNET) TO RELEASE DOOR.

Setting Up the TV

Overview

This chapter includes illustrated instructions for setting up your TV.

About the AC Power Cord

The AC power cord is attached to the rear of the TV with a hook. Use caution when removing the AC plug from its holder. Gently slide the plug upward to remove it from the hook. Once removed, the AC power plug should automatically disengage from its stored location.

You can detach the cord from this hook

AC power cord

✍ **Do not plug in the AC power cord until you have made all other connections.**

TV Controls and Connectors

Front Panel

Item		Description
1	MEMORY STICK	Memory Stick insertion slot. For details, see "Using the Memory Stick Picture Viewer" on page 52.
2	MEMORY STICK LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
3	S VIDEO VIDEO 2 INPUT	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (4).
4	VIDEO/L(MONO)-AUDIO-R VIDEO 2 INPUT	Connects to the composite A/V output jacks on your camcorder or other video equipment.
5	MENU	Press to display the Menu. Press again to exit from the Menu. For details, see "Using the Menus" on page 63.
6	↑ ↓ ← →	Press ↑ ↓ ← → to move the on-screen cursor.
7	⊹ SELECT	Press to select the on-screen highlighted item.
8	TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
9	-VOLUME +	Press to adjust the volume.
10	-CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
11	TIMER LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 73.
12	STAND BY LED	Blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service (see "Contacting Sony" on page 80).
13	Infrared Receiver (IR)	Receives IR signals from the TV's remote control.
14	POWER	Press to turn on and off the TV.

Setup

Rear Panel

Jack	Description
1 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV.
2 S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video (**3**) or VHF/UHF (**9**) connections.
3 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. This video connection provides better picture quality than the VHF/UHF (**9**) connection.
4 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with 480p, 720p, or 1080i when the input is set to VIDEO 5-7).
5 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
6 HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, PB, PR) and audio (L/R) jacks. Component video provides the best picture quality (better than **2**, **3**, or **9**).
7 AUX	Auxiliary RF input that connects to your antenna, CATV cable, or cable box output jack. This is convenient if you are using two VHF/UHF sources (antenna, CATV cable, or cable box). For details, see pages 16 to 19.
8 TO CONVERTER	Connects to your cable box input jack. This VHF/UHF output jack lets you set up your TV to switch between scrambled channels (coming through a cable box) and unscrambled cable channels. Use this jack instead of a splitter to get better picture quality when you need to switch between scrambled and unscrambled cable channels. For details, see pages 18 to 19.
9 VHF/UHF	Primary RF input that connects to your VHF/UHF antenna or cable.
10 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.

* High-bandwidth Digital Content Protection

Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

If You Are Connecting	See Page
Cable or Antenna Only ❏ No cable box or VCR	15
Cable and Antenna Only ❏ No cable box or VCR	16
Cable Box and Cable Only ❏ Cable box unscrambles only some channels (usually premium channels) ❏ No VCR	18
Cable Box Only ❏ Cable box unscrambles all channels ❏ No VCR	20

If you are connecting a VCR
❏ See the connections described on pages 22 and 24.

Cable or Antenna Only

For best results, use one of the following connections if you are connecting a cable or an antenna and you:

❏   Do not need a cable box to unscramble channels. (If you have a cable box, see pages 18-20.)

❏   Do not intend to connect a VCR. (If you have a VCR, see pages 22 and 24.)

The connection you choose depends on the cable type you have in your home, as described below.

75-ohm coaxial cable (usually found in newer homes)	
Cable Type	*Connect As Shown*
VHF Only or combined VHF/UHF or Cable	

300-ohm twin lead cable (usually found in older homes)	
Cable Type	*Connect As Shown*
VHF Only or UHF Only or combined VHF/UHF	

75-ohm coaxial and 300-ohm twin lead cable (found in some homes)	
Cable Type	*Connect As Shown*
VHF and UHF	

Cable and Antenna Only

For best results, use this connection if you:

❏ Have a cable and an antenna.

(This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable company.)

❏ Do not have a cable box or VCR. (If you have a cable box, see pages 18 to 20. If you have a VCR, see pages 22 and 24.)

Cable Type	Connect As Shown
Cable TV (CATV) and Antenna	**CATV cable** → TV / **AUX** **(No connection to TO CONVERTER)** → **TO CONVERTER** **Antenna cable** → **VHF/UHF**

About Using Twin View with This Connection

With this connection, you cannot view CATV channels in the right Twin View window.

For details about Twin View, see page 46.

Notes on Using This Connection

To Do This ...	Do This ...
Switch the TV's input between the cable and antenna	Press ANT to switch back and forth between the TV's VHF/UHF and AUX inputs.
Receive channels using an antenna, instead of the cable	**1** Press ANT to switch to the AUX input. **2** Set the Cable option to Off. For details, see "Selecting Channel Options" on page 68. **3** Run the Auto Setup program, as described in "Using Auto Setup" on page 38.

Setup

Cable Box and Cable Only

✍ **DIGITAL CABLE BOX USERS: Do not use this connection. The TO CONVERTER jack is not compatible with digital cable boxes.**

For best results, use this connection if:

❑ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

❑ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:

❑ Use the TV remote control to change channels coming through the cable box to the TV's AUX input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 43.)

❑ Use the TV remote control to change channels coming directly into the TV's VHF/UHF input. (The TV's tuner provides a better signal than the cable box.)

About Using Twin View with This Connection

With this connection, you can use all the Twin View features for unscrambled channels coming directly into the TV's VHF/UHF input jack.
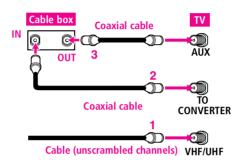
However, you can use only some of the Twin View features for channels coming through the cable box to the TV's AUX input jack. For example, when you switch the TV's input to AUX — to select the cable box input — the picture displays only in the left window. If you turn on Twin View, you can watch cable channels coming into the VHF/UHF jack in the right window, but you cannot SWAP the pictures between the left and right windows.

For details about Twin View, see page 46.

To connect the cable box and cable

1   Connect the cable from your cable company to the TV's VHF/UHF jack.

2   Use a coaxial cable to connect the TV's TO CONVERTER jack to the cable box's input jack. (The TV's internal converter lets you switch between unscrambled signals coming straight into the TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.)

3   Use a coaxial cable to connect the cable box's output jack to the TV's AUX jack.

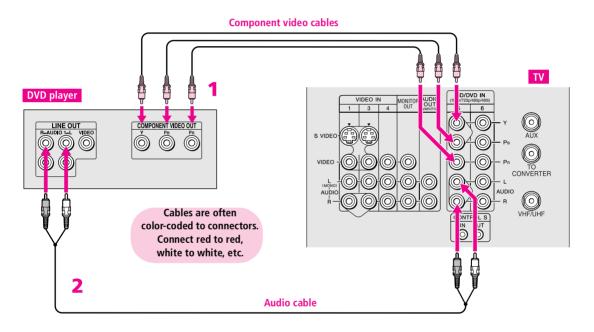**4**   Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

If you have a digital cable box, you cannot use this connection because the TO CONVERTER jack is not compatible with digital cable boxes.

Cable box | Coaxial cable | TV
IN | OUT 3 | AUX
2 | TO CONVERTER
Coaxial cable
1 | VHF/UHF
Cable (unscrambled channels)

Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 68.
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (unscrambled channels) and AUX (scrambled) inputs.

Cable Box Only

For best results, use this connection if:

❑ Your cable company scrambles all channels, which requires you to use a cable box.

❑ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:

❑ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

About Using Twin View with This Connection
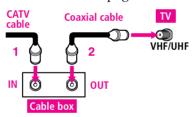
With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the Twin View feature. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Cable" connection on page 18 instead. For details about Twin View, see page 46.

To connect the cable box

1 Connect the CATV cable to the cable box's input jack.

2 Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.

3 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 68.

Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:

If You Are Connecting	See Page
VCR and Cable	22
VCR and Cable Box	24
Two VCRs for Tape Editing	26
Satellite Receiver	28
Satellite Receiver and VCR	30
DVD Player with Component Video Connectors	32
DVD Player with S VIDEO and Audio Connectors	34
Camcorder	35
Audio Receiver	36

About Using S VIDEO

If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection

TV

VIDEO IN
1 3 4
MONITOR OUT
AUDIO OUT (VAR/FIX)

S VIDEO

VIDEO

L (MONO)
AUDIO
R

S VIDEO cable

Equipment with S VIDEO

LINE OUT
AUDIO R AUDIO L VIDEO S VIDEO

Audio cable

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

21

VCR and Cable

For best results, use this connection if:

❑ Your cable company does not require you to use a cable box.

About Using Twin View with This Connection

With this connection, you can use all the features of Twin View. For details about Twin View, see page 46.

To connect the VCR and cable

1 Connect the CATV cable to the VCR's VHF/UHF input jack.

2 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.

3 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.

4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

Using S VIDEO jacks? See page 21.

TV

VCR

Coaxial cable

CATV cable

A/V cable

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Notes on Using This Connection

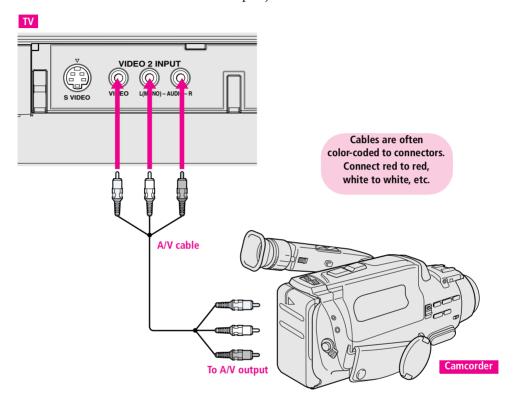| To Do This ...	Do This ...
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (VHF/UHF in the illustration).
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the VCR	Set the A/V slide switch to the position you programmed for the VCR. Then press VCR/DVD FUNCTION.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

Setup

23

VCR and Cable Box

For best results, use this connection if:

❏ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

About Using Twin View with This Connection

With this connection, you can use all the features of Twin View. For details about Twin View, see page 46.

With this connection you can:

❏ Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 43.)

❏ Use the TV remote control to change channels coming directly into the TV's VHF/UHF jack. (The TV's tuner provides a better signal than the cable box.)

❏ Record channels coming through the cable box and channels coming directly into the TV.

To connect a VCR and cable box, you need:

❏ A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.

✍ **DIGITAL CABLE BOX USERS: If you are connecting a digital cable box, you will need a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.**

❏ Three coaxial cables.

❏ One A/V cable or one S VIDEO cable with audio cables.

To connect the VCR and cable box

1 Connect the CATV cable to the single (input) jack of the splitter.

2 Use a coaxial cable to connect one of the splitter's two output jacks to the TV's VHF/UHF jack.

3 Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.

4 Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.

5 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.

6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

Using S VIDEO jacks? See page 21.

TV

VIDEO IN | MONITOR OUT | AUDIO OUT (VAR/FIX)

1 3 4

HD/DVD IN (1080/720p/480p/480i)

5 6

S VIDEO

VIDEO

L (MONO)
AUDIO
R

Y
P_B
P_R
L
AUDIO
R

AUX

TO CONVERTER

VHF/UHF

CONTROL S
IN OUT

Splitter (not supplied) **2** **1**

CATV cable

Coaxial cable

3

Cable box IN OUT

If you are connecting a digital cable box, you will need a special bi-directional splitter designed to work with your cable box.

Coaxial cable **4**

VCR

AUDIO R AUDIO L VIDEO   IN
LINE OUT   OUT

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

5

A/V cable

Notes on Using This Connection

To Do This ...	Do This ...
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (UHF/VHF in the illustration).
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box or VCR	For the cable box, press SAT/CABLE FUNCTION. For the VCR, set the A/V slide switch to the position you programmed for the VCR. Then press VCR/DVD FUNCTION.
Control specific cable box and VCR functions with the TV remote control	See "Operating a Cable Box" on page 61 and "Operating a VCR" on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

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Two VCRs for Tape Editing

Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

Using S VIDEO jacks? See page 21.

To connect two VCRs for tape editing

1 Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.

2 Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Notes on Using This Connection
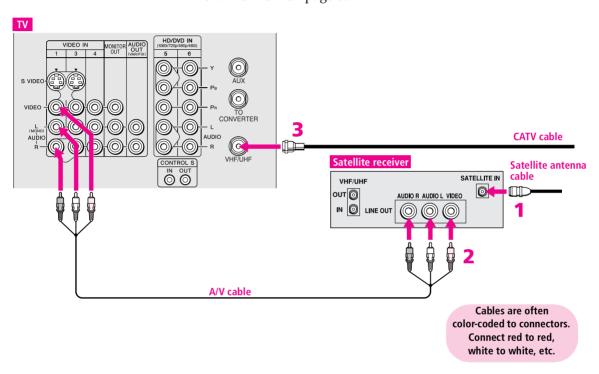
To Do This ...	Do This ...
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration above).
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the VCR(s)	Set the A/V slide switch to the position you programmed for the VCR. Then press VCR/DVD FUNCTION.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

Setup

Satellite Receiver

To connect a satellite receiver

1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.

2 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.

3 Connect a CATV cable from your cable or antenna to the TV's VHF/UHF jack.

4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

TV

VIDEO IN · 1 · 3 · 4
MONITOR OUT
AUDIO OUT (VAR/FIX)
HD/DVD IN (1080i/720p/480p/480i) · 5 · 6

S VIDEO
VIDEO
L (MONO)
AUDIO
R

Y
P_B
P_R
L
AUDIO
R

AUX
TO CONVERTER
VHF/UHF

CONTROL S IN OUT

3

CATV cable

Satellite receiver

Satellite antenna cable

VHF/UHF
OUT
IN · LINE OUT
AUDIO R · AUDIO L · VIDEO
SATELLITE IN

1

2

A/V cable

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver	Press SAT/CABLE FUNCTION.
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

Satellite Receiver and VCR

To connect a satellite receiver and VCR

1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.

2 Connect the CATV cable to the VCR's VHF/UHF input jack.

3 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.

4 Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.

5 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.

6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
	The VCR may need to be turned on and set to the satellite receiver input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE FUNCTION. For the VCR, set the A/V slide switch to the position you programmed for the VCR. Then press VCR/DVD FUNCTION.
Control satellite receiver and VCR functions with the TV remote control	See "Operating a Satellite Receiver" on page 60 and "Operating a VCR" on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

Setup

DVD Player with Component Video Connectors

For best results, use this connection if your DVD player has component video (Y, P$_B$, P$_R$) jacks.

To connect a DVD player with component video connectors

1   Use three separate component video cables to connect the DVD player's Y, P$_B$ and P$_R$ jacks to the Y, P$_B$ and P$_R$ jacks (VIDEO 5) on the TV.

> ✍ The Y, P$_B$ and P$_R$ jacks on your DVD player are sometimes labeled Y, C$_B$ and C$_R$, or Y, B-Y and R-Y. If so, connect the cables to like colors.

2   Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.

Component video cables

DVD player

TV

1

2

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Audio cable

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Set the A/V slide switch to the position you programmed for the DVD player. Then press VCR/DVD FUNCTION.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

✍ **You cannot record the signal from any equipment connected into the Y, PB, PR jacks.**

Setup

DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, PB, PR) jacks.

To connect a DVD player with A/V connectors

1 Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.

2 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

TV

DVD player

S VIDEO cable

Audio cable

Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Set the A/V slide switch to the position you programmed for the DVD player. Then press VCR/DVD FUNCTION.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

Camcorder

For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

To connect a camcorder

1 Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.

TV

VIDEO 2 INPUT

S VIDEO   VIDEO   L(MONO) – AUDIO – R

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

A/V cable

To A/V output

Camcorder

If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

Note on Using This Connection

To Do This ...	Do This ...
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 74-75.

Setup

Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

To connect an audio system

1 Use an audio cable to connect the TV's audio output jacks to the audio receiver's line input jacks.

Audio cable

Receiver

To line input

Cables are often color-coded to connectors. Connect red to red, white to white.

2 Using the TV's Audio Menu, set the Speaker option to Off. Then set the Audio Out option to Fixed or Variable, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 66.

3 Turn on the audio receiver, and then set the receiver's line input to the jack into which you connected the TV.

Using the CONTROL S Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.

Setting Up the Channel List

After you finish connecting your TV, you need to run Auto Setup to set up your channels. The Auto Setup screen appears when you turn on your TV for the first time after hooking it up. If you do not want to set up the channels at this time, you can do it later by selecting the Auto Program option in the Channel Menu (see page 68).

✍ **The Auto Setup feature does not apply for installations that use a cable box for all channel selection.**

Using Auto Setup

1 Press POWER to turn on the TV.
2 Press TV FUNCTION on the remote control.
3 To continue running Auto Setup, press CH+. To exit Auto Setup, press CH-.

Auto Setup automatically creates a list of receivable channels. When finished, the lowest numbered channel is displayed.

To reset the TV to factory settings
1 Press POWER to turn on the TV.
2 Hold down RESET on the remote control.
3 Press TV POWER on the TV. (The TV will turn itself off, then back on.)
4 Release RESET.

Setting Up the TV

Overview

This chapter includes illustrated instructions for setting up your TV.

About the AC Power Cord

The AC power cord is attached to the rear of the TV with a hook. Use caution when removing the AC plug from its holder. Gently slide the plug upward to remove it from the hook. Once removed, the AC power plug should automatically disengage from its stored location.

✍ **Do not plug in the AC power cord until you have made all other connections.**

You can detach the cord from this hook

AC power cord

TV Controls and Connectors

Front Panel

1   2   3   4   5   6   7   8 9 10   11

S VIDEO   VIDEO   L(MONO) – AUDIO – R

VIDEO 2 INPUT

MEMORY STICK

TV/VIDEO   – VOLUME +   – CHANNEL+

TIMER   STAND BY

POWER
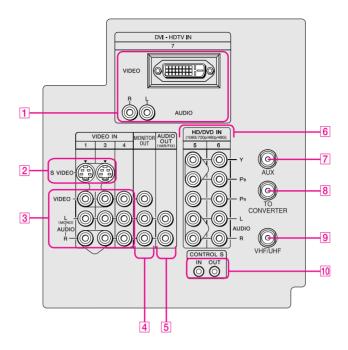
Item		Description
1	S VIDEO VIDEO 2 INPUT	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (2).
2	VIDEO/L(MONO)-AUDIO-R VIDEO 2 INPUT	Connects to the composite A/V output jacks on your camcorder or other video equipment.
3	MEMORY STICK	Memory Stick insertion slot. For details, see "Using the Memory Stick Picture Viewer" on page 54.
4	MEMORY STICK LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
5	TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
6	-VOLUME +	Press to adjust the volume.
7	-CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
8	TIMER LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 79.
9	STAND BY LED	Blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service (see "Contacting Sony" on page 84).
10	Infrared Receiver (IR)	Receives IR signals from the TV's remote control.
11	POWER	Press to turn on and off the TV.

Rear Panel

Jack	Description
1 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV.
2 S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video (**3**) or VHF/UHF (**9**) connections.
3 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. This video connection provides better picture quality than the VHF/UHF (**9**) connection.
4 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with 480p, 720p, or 1080i when the input is set to VIDEO 5 or 6).
5 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
6 HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, P_B, P_R) and audio (L/R) jacks. Component video provides better picture quality than **2**, **3**, or **9**).
7 AUX	Auxiliary RF input that connects to your antenna, CATV cable, or cable box output jack. This is convenient if you are using two VHF/UHF sources (antenna, CATV cable, or cable box). For details, see pages 16 to 19.
8 TO CONVERTER	Connects to your cable box input jack. This VHF/UHF output jack lets you set up your TV to switch between scrambled channels (coming through a cable box) and unscrambled cable channels. Use this jack instead of a splitter to get better picture quality when you need to switch between scrambled and unscrambled cable channels. For details, see pages 18 to 19.
9 VHF/UHF	Primary RF input that connects to your VHF/UHF antenna or cable.
10 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.

* High-bandwidth Digital Content Protection

Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

If You Are Connecting	See Page
Cable or Antenna Only ❏ No cable box or VCR	15
Cable and Antenna Only ❏ No cable box or VCR	16
Cable Box and Cable Only ❏ Cable box unscrambles only some channels (usually premium channels) ❏ No VCR	18
Cable Box Only ❏ Cable box unscrambles all channels ❏ No VCR	20

If you are connecting a VCR

❏ See the connections described on pages 22 and 24.

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Cable or Antenna Only

For best results, use one of the following connections if you are connecting a cable or an antenna and you:

❑ Do not need a cable box to unscramble channels. (If you have a cable box, see pages 18-20.)

❑ Do not intend to connect a VCR. (If you have a VCR, see pages 22 and 24.)

The connection you choose depends on the cable type you have in your home, as described below.

75-ohm coaxial cable (usually found in newer homes)

Cable Type	Connect As Shown
VHF Only or combined VHF/UHF or Cable	75-ohm coaxial cable — TV — VHF/UHF
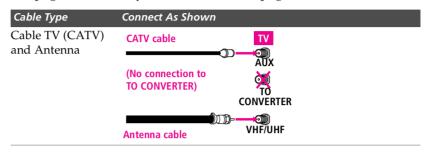
300-ohm twin lead cable (usually found in older homes)

Cable Type	Connect As Shown
VHF Only or UHF Only or combined VHF/UHF	300-ohm twin lead cable — TV — VHF/UHF — Antenna connector (not supplied)

75-ohm coaxial and 300-ohm twin lead cable (found in some homes)

Cable Type	Connect As Shown
VHF and UHF	75-ohm coaxial cable — TV — VHF/UHF — U/V mixer (not supplied) — 300-ohm twin lead cable

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Cable and Antenna Only

For best results, use this connection if you:

❏ Have a cable and an antenna.

(This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable company.)

❏ Do not have a cable box or VCR. (If you have a cable box, see pages 18 to 20. If you have a VCR, see pages 22 and 24.)

Cable Type	Connect As Shown
Cable TV (CATV) and Antenna	**CATV cable** TV / AUX **(No connection to TO CONVERTER)** TO CONVERTER **Antenna cable** VHF/UHF

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you cannot view CATV channels in the right dual picture window.

Notes on Using This Connection

To Do This ...	Do This ...
Switch the TV's input between the cable and antenna	Press ANT to switch back and forth between the TV's VHF/UHF and AUX inputs.
Receive channels using an antenna, instead of the cable	**1** Press ANT to switch to the AUX input. **2** Set the Cable option to Off. For details, see "Selecting Channel Options" on page 72. **3** Run the Auto Setup program, as described in "Using Auto Setup" on page 38.

Setup

For best results, use this connection if:
❑ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
❑ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:
❑ Use the TV remote control to change channels coming through the cable box to the TV's AUX input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 43.)
❑ Use the TV remote control to change channels coming directly into the TV's VHF/UHF input. (The TV's tuner provides a better signal than the cable box.)

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features for unscrambled channels coming directly into the TV's VHF/UHF input jack.

However, you can use only some of the dual picture features for channels coming through the cable box to the TV's AUX input jack. For example, when you switch the TV's input to AUX — to select the cable box input — the picture displays only in the left window. For example, if you turn on Twin View, you can watch cable channels coming into the VHF/UHF jack in the right window, but you cannot swap the pictures between the left and right windows.

To connect the cable box and cable

1 Connect the cable from your cable company to the TV's VHF/UHF jack.

2 Use a coaxial cable to connect the TV's TO CONVERTER jack to the cable box's input jack. (The TV's internal converter lets you switch between unscrambled signals coming straight into the TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.)

3 Use a coaxial cable to connect the cable box's output jack to the TV's AUX jack.

4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

Setup

If you have a digital cable box, you cannot use this connection because the TO CONVERTER jack is not compatible with digital cable boxes.

Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 72.
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (unscrambled channels) and AUX (scrambled) inputs.

19

Cable Box Only

For best results, use this connection if:

❏ Your cable company scrambles all channels, which requires you to use a cable box.

❏ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

With this connection you can:

❏ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

About Using This Connection with Dual Picture (Twin View, etc.) Features
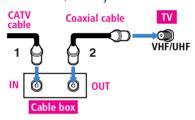
With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features.. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Cable" connection on page 18 instead.

To connect the cable box

1 Connect the CATV cable to the cable box's input jack.

2 Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.

Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 72.

Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:

If You Are Connecting	See Page
VCR and Cable	22
VCR and Cable Box	24
Two VCRs for Tape Editing	26
Satellite Receiver	28
Satellite Receiver and VCR	30
DVD Player with Component Video Connectors	32
DVD Player with S VIDEO and Audio Connectors	34
Camcorder	35
Audio Receiver	36

About Using S VIDEO

If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection

TV

S VIDEO cable

Equipment with S VIDEO

LINE OUT
AUDIO R AUDIO L VIDEO   S VIDEO

VIDEO IN
1   3   4   MONITOR OUT   AUDIO OUT (VAR/FIX)

S VIDEO

VIDEO

L (MONO)
AUDIO
R

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Audio cable

VCR and Cable

For best results, use this connection if:

❏ Your cable company does not require you to use a cable box.

With this connection, you can use all the dual picture features.

**Using
S VIDEO jacks?
See page 21.**

To connect the VCR and cable

1 Connect the CATV cable to the VCR's VHF/UHF input jack.

2 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.

3 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.

4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.
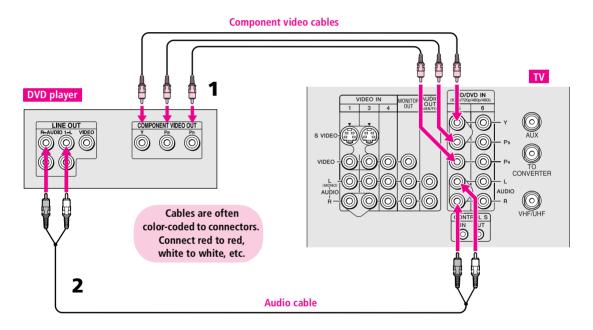

Coaxial cable

VCR

CATV cable

**Cables are often
color-coded to connectors.
Connect red to red,
white to white, etc.**

A/V cable

22

Notes on Using This Connection

To Do This ...	Do This ...
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (VHF/UHF in the illustration).
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the VCR	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

Setup

VCR and Cable Box

For best results, use this connection if:

❑   Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

With this connection you can:

❑   Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 43.)

❑   Use the TV remote control to change channels coming directly into the TV's VHF/UHF jack. (The TV's tuner provides a better signal than the cable box.)

❑   Record channels coming through the cable box and channels coming directly into the TV.

To connect a VCR and cable box, you need:

❑   A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.

> ✍ **DIGITAL CABLE BOX USERS: If you are connecting a digital cable box, you will need a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.**

❑   Three coaxial cables.

❑   One A/V cable or one S VIDEO cable with audio cables.

To connect the VCR and cable box

1   Connect the CATV cable to the single (input) jack of the splitter.

2   Use a coaxial cable to connect one of the splitter's two output jacks to the TV's VHF/UHF jack.

3   Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.

4   Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.

5   Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.

6   Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

TV

VIDEO IN — 1 3 4
MONITOR OUT
AUDIO OUT (VAR/FIX)
HD/DVD IN (1080i/720p/480p/480i) — 5 6

S VIDEO
VIDEO
L (MONO) AUDIO R

Y
P_B
P_R
AUX
TO CONVERTER
L AUDIO R
VHF/UHF

CONTROL S — IN OUT

2 **Splitter** (not supplied)

1

Coaxial cable

CATV cable

3

Cable box — IN / OUT

If you are connecting a digital cable box, you will need a special bi-directional splitter designed to work with your cable box.

Coaxial cable

4

VCR

AUDIO R AUDIO L VIDEO
LINE OUT

IN / OUT

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

5

A/V cable

Setup

Notes on Using This Connection

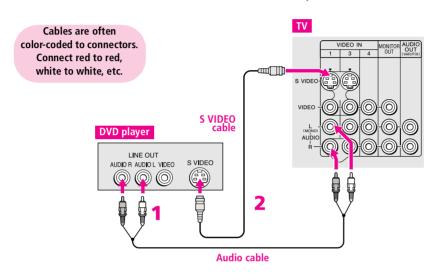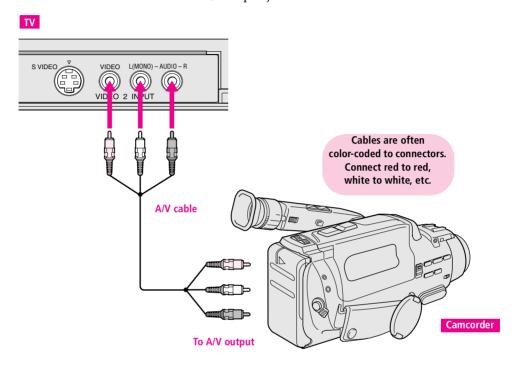| To Do This ...	Do This ...
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (UHF/VHF in the illustration).
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the remote control to operate the cable box or VCR	For the cable box, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control specific cable box and VCR functions with the TV remote control	See "Operating a Cable Box" on page 63 and "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

Two VCRs for Tape Editing
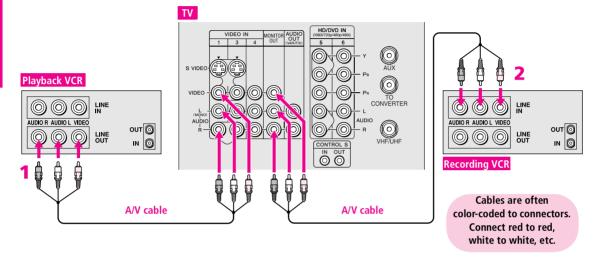
Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

To connect two VCRs for tape editing

1 Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.

2 Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.

A/V cable

A/V cable

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Notes on Using This Connection
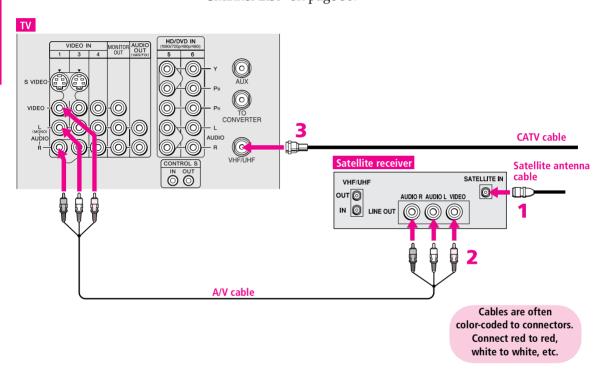
To Do This ...	Do This ...
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration above).
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the VCR(s)	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

Setup

Satellite Receiver

To connect a satellite receiver

1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.

2 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.

3 Connect a CATV cable from your cable or antenna to the TV's VHF/UHF jack.

4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

TV

VIDEO IN
1   3   4
MONITOR OUT
AUDIO OUT (VAR/FIX)
HD/DVD IN (1080i/720p/480p/480i)
5   6

S VIDEO
VIDEO
L (MONO)
AUDIO
R

Y
P_B
P_R
L
AUDIO
R

AUX
TO CONVERTER
VHF/UHF

CONTROL S
IN   OUT

3

CATV cable

Satellite receiver

VHF/UHF
OUT
IN   LINE OUT
AUDIO R AUDIO L VIDEO
SATELLITE IN

Satellite antenna cable

1

2

A/V cable

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

28

Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver	Press SAT/CABLE FUNCTION.
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

Setup

Satellite Receiver and VCR

To connect a satellite receiver and VCR

1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.

2 Connect the CATV cable to the VCR's VHF/UHF input jack.

3 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.

4 Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.

5 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.

6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 38.

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
	The VCR must be turned on and set to the satellite receiver's line input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the VCR.
Control satellite receiver and VCR functions with the TV remote control	See "Operating a Satellite Receiver" on page 62 and "Operating a VCR" on page 62.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

Setup

DVD Player with Component Video Connectors

For best results, use this connection if your DVD player has component video (Y, PB, PR) jacks.

To connect a DVD player with component video connectors

1 Use three separate component video cables to connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks (VIDEO 5) on the TV.

> ✍ **The Y, PB and PR jacks on your DVD player are sometimes labeled Y, CB and CR, or Y, B-Y and R-Y. If so, connect the cables to like colors.**

2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.

Component video cables

DVD player

TV

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Audio cable

Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 63.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

✍ **You cannot record the signal from any equipment connected into the Y, PB, PR jacks.**

Setup

DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, PB, PR) jacks.

To connect a DVD player with A/V connectors

1 Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.

2 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

TV

DVD player

S VIDEO cable

Audio cable

Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 43-44.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 42. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 63.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

Camcorder

For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

To connect a camcorder

1 Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.

TV

S VIDEO ▽ VIDEO L(MONO) – AUDIO – R

VIDEO 2 INPUT

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

A/V cable

Camcorder

To A/V output

If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

Notes on Using This Connection

To Do This ...	Do This ...
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 78.

Setup

Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

To connect an audio system

1 Use an audio cable to connect the TV's audio output jacks to the audio receiver's line input jacks.

Cables are often color-coded to connectors. Connect red to red, white to white.

2 Using the TV's Audio Menu, set the Speaker option to Off. Then set the Audio Out option to Fixed or Variable, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 68.

3 Turn on the audio receiver, and then set the receiver's line input to the jack into which you connected the TV.

Using the CONTROL S Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.

Setting Up the Channel List

After you finish connecting your TV, you need to run Auto Setup to set up your channels. The Auto Setup screen appears when you turn on your TV for the first time after hooking it up. If you do not want to set up the channels at this time, you can do it later by selecting the Auto Program option in the Channel Menu (see page 72).

✍ **The Auto Setup feature does not apply for installations that use a cable box for all channel selection.**

Using Auto Setup

1 Press POWER to turn on the TV.
2 Press TV FUNCTION on the remote control.
3 To continue running Auto Setup, press CH+. To exit Auto Setup, press CH-.

Auto Setup automatically creates a list of receivable channels. When finished, the lowest numbered channel is displayed.

To reset the TV to factory settings
1 Press POWER to turn on the TV.
2 Hold down RESET on the remote control.
3 Press TV POWER on the TV. (The TV will turn itself off, then back on.)
4 Release RESET.

Instalación del televisor
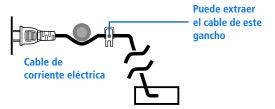
Resumen

En este capítulo se brindan instrucciones ilustradas para instalar el televisor.

Nota sobre el cable eléctrico
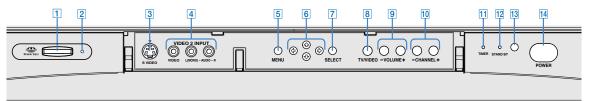
El cable de corriente alterna está sujeto a la parte posterior del televisor mediante un gancho. Tenga cuidado al retirar la clavija de corriente alterna de su compartimiento. Deslice hacia arriba la clavija con suavidad para extraerla del gancho. Una vez extraída, la clavija se desacoplará automáticamente del sitio en el que está alojada.

Puede extraer el cable de este gancho

Cable de corriente eléctrica

✍ **No conecte el cable eléctrico hasta que haya realizado todas las demás conexiones.**
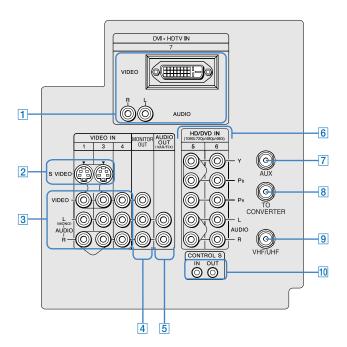
Conectores y controles del televisor

Panel frontal

| | | | | | | | | | | | | | |
|1|2|3|4|5|6|7|8|9|10|11|12|13|14|

Memory Stick

S VIDEO

VIDEO 2 INPUT

VIDEO   L(MONO) – AUDIO – R

MENU

SELECT

TV/VIDEO   –VOLUME+   –CHANNEL+

TIMER   STAND BY   POWER

Elemento		Descripción
1	MEMORY STICK (memoria MEMORY STICK)	Ranura para introducir el Memory Stick. Para mayores detalles, vea "Uso del visualizador de imágenes en Memory Stick" en la página 52.
2	MEMORY STICK LED (luz de MEMORY STICK)	Al iluminarse, indica que el televisor está leyendo el Memory Stick. (No extraiga el Memory Stick cuando este indicador esté iluminado.)
3	S VIDEO VIDEO 2 INPUT (entrada de VIDEO 2)	Se conecta con la salida S VIDEO OUT de su cámara de video u otro equipo de video que cuente con la función S VIDEO. Brinda mejor calidad de imagen que el video compuesto (4).
4	VIDEO/L (MONO)-AUDIO-R VIDEO 2 INPUT (entrada de VIDEO 2)	Se conecta a las conexiones de salida de audio y video de su cámara de video u otro equipo de video.
5	MENU (menú)	Presiónelo para ver el Menú. Vuélvalo a presionar para salir del Menú. Para mayores detalles, vea "Uso de los menús" en la página 63.
6	⬆ ⬇ ⬅ ➡	Presione ⬆ ⬇ ⬅ ➡ para mover el cursor en pantalla.
7	⊹ SELECT (seleccionar)	Presiónelo para seleccionar la opción que esté resaltada en pantalla.
8	TV/VIDEO (televisor/videograbadora)	Presiónelo repetidamente para recorrer el equipo de video que esté conectado a las entradas de video del televisor.
9	-VOLUME + (volumen)	Presiónelos para ajustar el volumen.
10	-CHANNEL+ (canal)	Presiónelos para recorrer los canales. Para recorrerlos rápidamente, mantenga presionado uno de los botones CHANNEL.
11	TIMER LED (luz reloj)	Al iluminarse, indica que uno de los timers (reloj) está programado y en ese caso, esta luz permanece iluminada aun cuando el televisor se apaga. Para mayores detalles, vea la página 71.
12	STAND BY LED (luz en espera)	Parpadea cuando se enciende el televisor y posteriormente se apaga cuando aparece la imagen. Si esta luz parpadea continuamente indica que es necesario reparar el televisor.
13	Receptor de señal Infrarroja	Recibe las señales infrarrojas del control remoto del televisor.
14	POWER (encendido/apagado)	Presiónelo para encender y apagar el televisor.

Panel posterior

DVI - HDTV IN
7
VIDEO
R   L
AUDIO

1

VIDEO IN
1   3   4

MONITOR
OUT

AUDIO
OUT
(VAR/FIX)

HD/DVD IN
(1080i/720p/480p/480i)
5   6

2   S VIDEO

3   VIDEO
L
(MONO)
AUDIO
R

6

Y

PB

PR

L
AUDIO
R

AUX   7

TO
CONVERTER   8

VHF/UHF   9

CONTROL S
IN   OUT

10

4   5

Elemento	Descripción
1 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN) (entrada de VIDEO 7)	Puede aceptar la conexión digital con protección contra copias (HDCP*) a otros dispositivos (como dispositivos de conexión inmediata digitales) si cuentan con interfaces compatibles. El terminal de entrada DVI-HDTV cumple con la norma EIA-861 y no tiene el fin de usarse con computadoras personales. Consulte el manual de instrucciones de su equipo para obtener detalles sobre cómo conectarlo y usarlo con el televisor.
2 S VIDEO IN 1/3/4 (entrada de S VIDEO en 1/3/4)	Se conecta a la salida S VIDEO OUT de su videograbadora u otro equipo de video que cuente con S VIDEO. S VIDEO brinda mejor calidad de imágenes que las conexiones de video compuesto (**3**) o VHF/UHF (**9**).
3 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R (entrada de video en 1/3/4 VIDEO/Izq.(MONOFÓNICO)- AUDIO-Der.)	Se conecta a las salidas de audio y video compuesto de su videograbadora u otro componente de video. Una cuarta entrada de audio y video (VIDEO 2) para componentes se encuentra en el panel frontal del televisor. Esta conexión de video brinda mejor calidad de imágenes que la conexión VHF/UHF (**9**).
4 MONITOR OUT (salida de monitor)	Permite grabar en una videograbadora el programa que esté viendo. Al conectar dos videograbadoras, puede utilizar el televisor como monitor para el montaje de cintas (no funciona con 480p, 720p ó 1080i si proviene de VIDEO 5-7).
5 AUDIO OUT (VAR/FIX) L(MONO)/R (salida de audio (VAR/FIJA) Izq. (MONOFÓNICO)/Der.)	Se conecta a las entradas de audio izquierda y derecha de su equipo de audio o video. Puede utilizar estas salidas para escuchar el audio de su televisor en su sistema de estéreo.
6 HD/DVD IN 5/6 (1080i/720p/480p/480i) (entrada de VIDEO 5/6)	Se conecta a las conexiones de video (Y, PB, PR) y audio (izq./der.) de video componente de su dispositivo de conexión inmediata digital o reproductor de DVD. El video componente brinda la mejor calidad de imágenes (mejor que **2**, **3** ó **9**).
7 AUX (auxiliar)	Entrada auxiliar de señal de radiofrecuencia que se conecta a su antena, cable de CATV o salida de decodificador (caja convertidora de televisión por cable). Esto es cómodo al utilizar dos fuentes de VHF/UHF (antena, cable de CATV o decodificador). Para obtener mayores detalles, vea las páginas 16 a 19.
8 TO CONVERTER (al convertidor)	Se conecta a la entrada de su decodificador. Esta salida de VHF/UHF le permite programar su televisor para alternar entre canales codificados (recibidos mediante un decodificador) y canales normales de televisión por cable. Use esta salida en lugar de un bifurcador para obtener una mejor calidad de imagen cuando sea necesario cambiar entre canales de televisión por cable codificados y no codificados. Para obtener mayores detalles, vea las páginas 18 a 19.
9 VHF/UHF	Entrada primaria de señal de radiofrecuencia que se conecta al cable o a la antena VHF/UHF.
10 CONTROL S IN/OUT (entrada/salida de CONTROL S)	Permite al televisor recibir (IN) y enviar (OUT) señales de control remoto a otro equipo Sony de audio o video controlado mediante señales infrarrojas que cuente con la función CONTROL S.

*High-bandwidth Digital Content Protection (Cifrado de contenido digital de alto ancho de banda)

Instalación

Conexiones básicas: Conexión del cable o la antena

Hay varias formas en que puede conectar su televisor, dependiendo de cómo se recibe la señal en su hogar (cable, decodificador, antena) y de si planea o no conectar una videograbadora.

Si conectará	Vea la página
Sólo el cable o la antena ❏ Sin decodificador ni videograbadora	15
Sólo el cable y la antena ❏ Sin decodificador ni videograbadora	16
Sólo el decodificador y el cable ❏ El decodificador descodifica sólo algunos canales (generalmente los de paga) ❏ Sin videograbadora	18
Sólo el decodificador ❏ El decodificador descodifica todos los canales ❏ Sin videograbadora	20

Si conectará una videograbadora
❏ Vea las conexiones descritas en las páginas 22 y 24.

Instalación

Sólo el cable o la antena
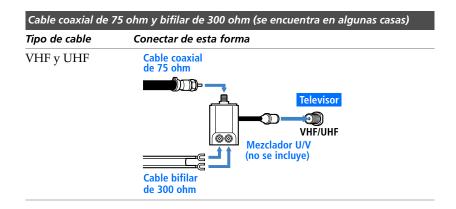
Para obtener los mejores resultados, use una de las siguientes conexiones si conectará el cable o la antena y:

❏ No necesita un decodificador para descodificar los canales. (Si conectará un decodificador, vea las páginas 18-20.)

❏ No conectará una videograbadora. (Si conectará una videograbadora, vea las páginas 22 y 24.)

Como se muestra a continuación, la conexión que escoja dependerá del tipo de cable con que cuente su casa.

Cable coaxial de 75 ohm (generalmente en casas más nuevas)	
Tipo de cable	*Conectarlo de esta forma*
Sólo VHF o combinación de VHF/UHF o cable	

Cable bifilar de 300 ohm (generalmente en casas más viejas)	
Tipo de cable	*Conectarlo de esta forma*
Sólo VHF o Sólo UHF o combinación de VHF/UHF	
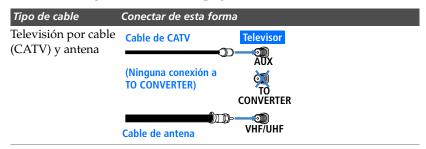
Cable coaxial de 75 ohm y bifilar de 300 ohm (se encuentra en algunas casas)	
Tipo de cable	*Conectar de esta forma*
VHF y UHF	

Sólo el cable y la antena

Para obtener los mejores resultados, realice las conexiones de esta forma si:

❑ Tiene cable y antena.
(Realizar las conexiones de esta forma es práctico si usará una antena de techo independiente para recibir los canales adicionales que no le brinda su compañía de televisión por cable.)

❑ No conectará un decodificador ni una videograbadora. (Si conectará un decodificador, vea las páginas 18 a 20. Si conectará una videograbadora, vea las páginas 22 a 24.)

Tipo de cable	Conectar de esta forma
Televisión por cable (CATV) y antena	**Cable de CATV** **Televisor** AUX **(Ninguna conexión a TO CONVERTER)** TO CONVERTER **Cable de antena** VHF/UHF

Uso de Twin View si realiza las conexiones de esta forma

Al realizar las conexiones de esta forma no podrá ver los canales del sistema de televisión por cable en la ventana derecha de Twin View.

Para obtener mayores detalles sobre Twin View, vea la página 47.

Notas para cuando realiza las conexiones de esta forma

Para ...	Haga esto...
Alternar la entrada del televisor entre la del cable y la antena	Presione ANT para alternar entre las entradas VHF/UHF y AUX del televisor.
Recibir canales por la antena en lugar de por el cable	**1** Presione ANT para cambiar a la entrada AUX. **2** Establezca la opción Cable en No. Para obtener mayores detalles, vea "Selección de opciones de canal", en la página 66. **3** Ejecute el programa Autoajustes, como se describe en "Uso de Autoajustes" en la página 38.

Instalación

17

Sólo el decodificador y el cable

✎ **USUARIOS DE DECODIFICADORES DIGITALES: No utilicen esta conexión, ya que el conector TO CONVERTER (al convertidor) no es compatible con decodificadores digitales.**

Para obtener los mejores resultados, realice las conexiones de esta forma si:

❑ Su compañía de cable codifica algunos canales, como los de paga (para los que debe usar un decodificador), pero no todos.

❑ No conectará una videograbadora. (Si conectará una videograbadora, vea las páginas 22 y 24.)

Si realiza las conexiones de esta forma, podrá:

❑ Usar el control remoto del televisor para cambiar los canales recibidos a través del decodificador mediante la entrada AUX del televisor. (Antes debe programar el control remoto para que funcione con su decodificador específico; vea "Programación del control remoto" en la página 43.)

❑ Usar el control remoto del televisor para cambiar los canales que el televisor recibe directamente en su entrada VHF/UHF. (El sintonizador de su televisor brinda una mejor señal que el decodificador.)

Uso de Twin View si realiza las conexiones de esta forma

Si realiza las conexiones de esta forma, podrá usar todas las funciones de Twin View en los canales no codificados que su televisor recibe directamente en la entrada VHF/UHF.
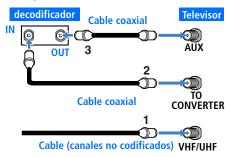
Sin embargo, sólo podrá usar algunas de las funciones de Twin View al ver canales que se reciben en la entrada VHF/UHF de su televisor a través del decodificador. Por ejemplo, cuando cambia la entrada del televisor a AUX —para seleccionar la entrada del decodificador—, la imagen aparecerá únicamente en la ventana izquierda. Si enciende Twin View, podrá ver en la ventana derecha los canales de cable que el televisor reciba en la entrada VHF/UHF, pero no podrá alternar las imágenes entre la ventana izquierda y derecha.

Para obtener mayores detalles sobre Twin View, vea la página 47.

Para conectar el decodificador y el cable

1   Conecte el cable de la compañía de cable al conector VHF/UHF de su televisor.

2   Utilice un cable coaxial para conectar el conector TO CONVERTER (al convertidor) de su televisor con la entrada del decodificador. (El convertidor interno del televisor le permite cambiar entre las señales no codificadas que el televisor recibe directamente y las señales codificadas que recibe mediante el decodificador, lo cual elimina la necesidad de utilizar un bifurcador externo.)

3   Utilice un cable coaxial para conectar la salida del decodificador con el conector AUX de su televisor.

4   Ejecute el programa Autoajustes, como se describe en "Programación de la lista de canales" en la página 38.

Si su decodificador es digital, no puede utilizar esta conexión porque el conector TO CONVERTER (al convertidor) no es compatible con ese tipo de decodificadores.

decodificador   Cable coaxial   Televisor
IN
OUT   3   AUX
2   TO CONVERTER
Cable coaxial
1
Cable (canales no codificados)   VHF/UHF

Notas para cuando realiza las conexiones de esta forma

Para...	Haga esto...
Usar el decodificador	Sintonice el televisor en el mismo canal en que haya sintonizado el decodificador (generalmente el 3 ó 4) y posteriormente use el decodificador para cambiar los canales.
Programar el control remoto del televisor para que funcione con el decodificador	Programe el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto para que funcione con el decodificador	Presione SAT/CABLE FUNCTION (Función de satélite/cable).
Evitar que los canales puedan cambiarse por error	Cuando utilice el decodificador, el televisor deberá permanecer en el mismo canal en el que está sintonizado el decodificador (generalmente el 3 ó 4). Puede usar la función Fijar Canal del televisor para fijar un canal. Para obtener detalles, vea "Uso del menú Canal" en la página 68.
Alternar la entrada del televisor entre el decodificador y cable	Presione ANT para alternar entre las entradas VHF/UHF (canales no codificados) y AUX (codificados) del televisor.

Sólo el decodificador

Para obtener los mejores resultados, realice las conexiones de esta forma si:

❑ Su compañía de cable codifica todos los canales y por esto debe usar un decodificador.

❑ No conectará una videograbadora. (Si conectará una videograbadora, vea las páginas 22 y 24.)

Si realiza las conexiones de esta forma, podrá:
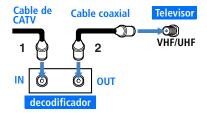
❑ Usar el control remoto del televisor para cambiar los canales recibidos a través del decodificador mediante el conector VHF/UHF del televisor. (Antes debe programar el control remoto para que funcione con su decodificador específico.)

Uso de Twin View si realiza las conexiones de esta forma

Cuando realiza las conexiones de esta forma, el televisor recibe todos los canales a través del decodificador y sólo una de las señales no codificadas se envía al televisor, por lo que no podrá usar la función Twin View. Si algunos de los canales están codificados y otros no, considere más bien realizar las conexiones como se indica en "Sólo el decodificador y el cable" en la página 18. Para obtener detalles sobre Twin View, vea la página 47.

Para conectar el decodificador

1 Conecte el cable del sistema de televisión por cable en el conector de entrada del decodificador.

2 Utilice un cable coaxial para conectar la salida del decodificador en el conector VHF/UHF del televisor.

3 Ejecute el programa Autoajustes, como se describe en "Programación de la lista de canales" en la página 38.

Cable de CATV **Cable coaxial** **Televisor**

1 2 **VHF/UHF**

IN **OUT**

decodificador

Notas para cuando realiza las conexiones de esta forma

Para...	Haga esto...
Usar el decodificador	Sintonice el televisor en el mismo canal en que haya sintonizado el decodificador (generalmente el 3 ó 4) y posteriormente use el decodificador para cambiar los canales.
Programar el control remoto del televisor para que funcione con el decodificador	Programe el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto para que funcione con el decodificador	Presione SAT/CABLE FUNCTION (Función de satélite/cable).
Evitar que los canales puedan cambiarse por error	Cuando utilice el decodificador, el televisor deberá permanecer en el mismo canal en el que está sintonizado el decodificador (generalmente el 3 ó 4). Puede usar la función Fijar Canal del televisor para fijar un canal. Para obtener detalles, vea "Uso del menú Canal" en la página 68.

Conexión de equipo optativo

Siga las instrucciones de esta sección para conectar el siguiente equipo optativo:
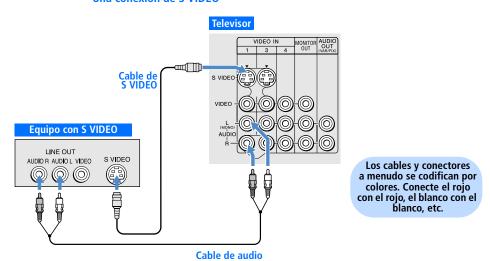
Instalación

Uso de S VIDEO

Si el equipo optativo que conectará cuenta con un conector S VIDEO (como el de la izquierda), puede usar un cable de S VIDEO para obtener mejor calidad de imagen que la que ofrecería un cable de audio y video. Debido a que S VIDEO sólo transmite la señal de video, también deberá conectar cables de audio para el sonido, como se indica a continuación.

Una conexión de S VIDEO

Televisor

Cable de S VIDEO

Equipo con S VIDEO

LINE OUT
AUDIO R   AUDIO L   VIDEO   S VIDEO

VIDEO IN   MONITOR OUT   AUDIO OUT (VAR/FIX)
1   3   4
S VIDEO
VIDEO
L (MONO) AUDIO
R

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

Cable de audio

21

Videograbadora y cable

Para obtener los mejores resultados, realice las conexiones de esta forma si:
❑ Su compañía de cable no exige el uso de un decodificador.
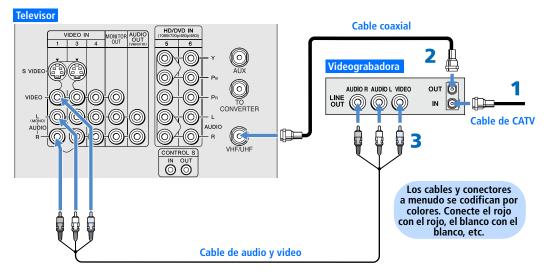
Si realiza las conexiones de esta forma podrá usar todas las funciones de Twin View. Para obtener detalles sobre Twin View, vea la página 47.

Para conectar la videograbadora y el cable

1 Conecte el cable del sistema de televisión por cable en la entrada VHF/UHF de la videograbadora.

2 Utilice un cable coaxial para conectar la salida VHF/UHF de la videograbadora con el conector VHF/UHF del televisor.

3 Utilice un cable de audio y video para conectar las salidas de audio y video de la videograbadora con las entradas de audio y video del televisor.

4 Ejecute el programa Autoajustes, como se describe en "Programación de la lista de canales" en la página 38.

Televisor

Cable coaxial

Videograbadora

2

1

Cable de CATV

3

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

Cable de audio y video

22

Notas para cuando realiza las conexiones de esta forma

| Para...	Haga esto...
Ver la señal de la videograbadora	Presione TV/VIDEO hasta que quede seleccionada la entrada de la videograbadora (VIDEO 1 en la ilustración).
Ver los canales de cable	Presione TV/VIDEO hasta que quede seleccionada la entrada de cable (VHF/UHF en la ilustración).
Programar el control remoto del televisor para que funcione con la videograbadora	Si su videograbadora no es marca Sony, debe programar el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto del televisor para que funcione con la videograbadora	Establezca el selector de audio y video en la misma posición en la que programó a la videograbadora. Después presione VCR/DVD FUNCTION (Función de videograbadora/DVD).
Controlar las funciones de la videograbadora con el control remoto del televisor	Vea "Con una videograbadora" en la página 60.
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video, en las páginas 72-73.

Instalación

Videograbadora y decodificador

Para obtener los mejores resultados, realice las conexiones de esta forma si:

❑ Su compañía de cable codifica algunos canales, como los de paga (para los que debe usar un decodificador), pero no todos.

Si realiza las conexiones de esta forma, podrá:

❑ Usar el control remoto del televisor para cambiar los canales que reciba mediante el decodificador. (Antes debe programar el control remoto para que funcione con su decodificador específico; vea "Programación del control remoto" en la página 43.)

❑ Usar el control remoto del televisor para cambiar los canales que se reciban directamente mediante el conector VHF/UHF del televisor. (El sintonizador del televisor brinda una mejor señal que el decodificador.)

❑ Grabar los canales que se reciben a través del decodificador y los que el televisor recibe directamente.
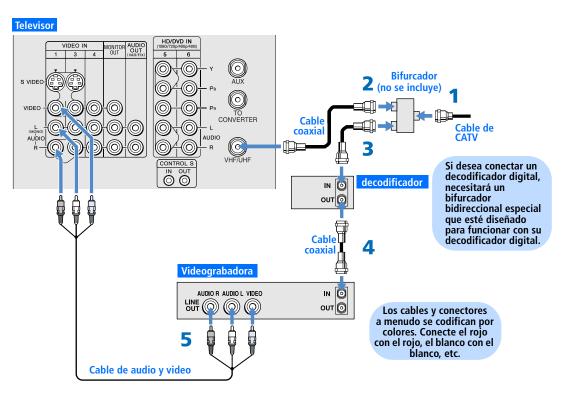
Para conectar una videograbadora y un decodificador se necesitarán:

❑ Un pequeño dispositivo, de costo módico, denominado bifurcador que puede adquirir en la tienda local de productos electrónicos.

> ✍ **USUARIOS DE DECODIFICADORES DIGITALES: Si desea conectar un decodificador digital, necesitará un bifurcador bidireccional especial que esté diseñado para funcionar con su decodificador digital. Comuníquese con su proveedor de servicio de cable para obtener los detalles.**

❑ Tres cables coaxiales.

❑ Un cable de audio y video o uno de S VIDEO y cables para audio.

Para conectar la videograbadora y el decodificador
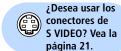
1 Conecte el cable del sistema de televisión por cable a la entrada única del bifurcador.

2 Utilice un cable coaxial para conectar una de las dos salidas del bifurcador a la entrada para VHF/UHF del televisor.

3 Utilice un cable coaxial para conectar la otra salida del bifurcador a la entrada del decodificador.

4 Utilice un cable coaxial para conectar la salida del decodificador a la entrada de RF (radiofrecuencia) de la videograbadora.

5 Utilice un cable de audio y video para conectar las salidas de audio y video de la videograbadora con las entradas de audio y video del televisor.

6 Ejecute el programa Autoajustes, como se describe en "Programación de la lista de canales" en la página 38.

Notas para cuando realiza las conexiones de esta forma

| Para...	Haga esto...
Ver los canales de cable (no codificados)	Presione TV/VIDEO hasta que quede seleccionada la entrada de cable (VHF/UHF en la ilustración).
Ver los canales del decodificador (codificados)	Encienda la videograbadora y sintonícela en el mismo canal en que sintonizó el decodificador (generalmente el 3 ó 4). Presione TV/VIDEO hasta que quede seleccionada la entrada de la videograbadora (VIDEO 1 en la ilustración). Use el decodificador para cambiar los canales.
Ver la señal de la videograbadora	Presione TV/VIDEO hasta que quede seleccionada la entrada de la videograbadora (VIDEO 1 en la ilustración).
Programar el control remoto del televisor para que funcione con el decodificador o la videograbadora	Si su videograbadora no es marca Sony, debe programar el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto para que funcione con el decodificador o la videograbadora	Para el decodificador presione SAT/CABLE FUNCTION (Función de satélite/cable). Para la videograbadora, coloque el selector de audio y video en la misma posición en la que haya programado la videograbadora. Después presione VCR/DVD FUNCTION.
Controlar funciones específicas del decodificador y la videograbadora con el control remoto del televisor	Vea "Con un decodificador" en la página 61 y "Con una videograbadora" en la página 60.
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video en las páginas 72-73.

Instalación
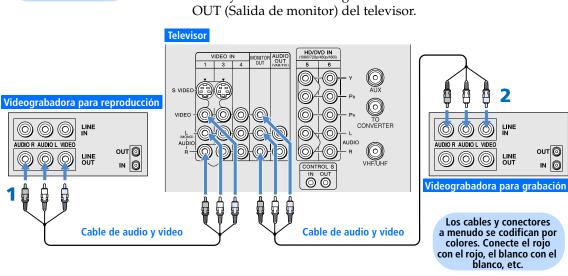
Dos videograbadoras para el montaje de cintas

Si conecta dos videograbadoras, podrá grabar de una a la otra y si las conecta como se indica a continuación, podrá ver (monitorizar) lo que se esté grabando.

Para conectar dos videograbadoras para el montaje de cintas

1 Utilice un cable de audio y video para conectar las salidas de audio y video de la videograbadora de reproducción a las entradas de audio y video del televisor.

2 Utilice un cable de audio y video para conectar las entradas de audio y video de la videograbadora a los conectores MONITOR OUT (Salida de monitor) del televisor.

Televisor

Videograbadora para reproducción

VIDEO IN
1 3 4
MONITOR OUT
AUDIO OUT (VAR/FIX)
HD/DVD IN (1080i/720p/480p/480i)
5 6

S VIDEO
VIDEO
L (MONO)
AUDIO
R

Y
P_B
P_R
AUX
TO CONVERTER
L
AUDIO
R
VHF/UHF

CONTROL S
IN OUT

LINE IN
AUDIO R AUDIO L VIDEO
LINE OUT
OUT
IN

Cable de audio y video

Cable de audio y video

2

Videograbadora para grabación

LINE IN
AUDIO R AUDIO L VIDEO
LINE OUT
OUT
IN

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

1

Notas para cuando realiza las conexiones de esta forma

| Para...	Haga esto...
Ver (monitorizar) lo que se está grabando	Presione TV/VIDEO hasta que quede seleccionada la entrada de la videograbadora (VIDEO 1 en la ilustración anterior).
Programar el control remoto del televisor para que funcione con la(s) videograbadora(s)	Si su videograbadora no es marca Sony, debe programar el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto del televisor para que funcione con la(s) videograbadora(s)	Coloque el selector de audio y video en la misma posición en la que haya programado la videograbadora. Después presione VCR/DVD FUNCTION (Función de videograbadora/DVD).
Controlar las funciones de videograbadora con el control remoto del televisor	Vea "Con una videograbadora" en la página 60.
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video en las páginas 72-73.

Instalación
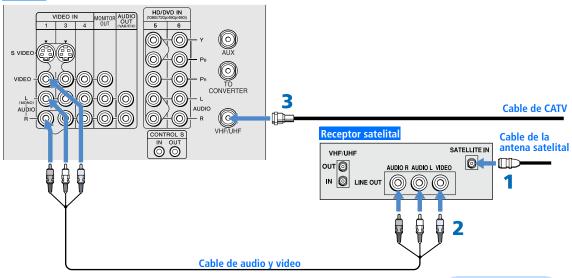
Receptor satelital

Para conectar un receptor satelital

1 Conecte el cable de la antena satelital a la entrada satelital del receptor satelital.

2 Utilice un cable de audio y video para conectar las salidas de audio y video del receptor satelital a las entradas de audio y video del televisor.

3 Conecte el cable del sistema de televisión por cable desde su cable o antena al conector VHF/UHF de su televisor.

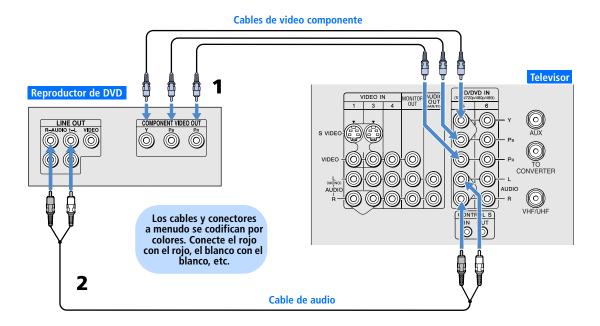**4** Ejecute el programa Autoajustes, como se describe en "Programación de la lista de canales" en la página 38.

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

Notas para cuando realiza las conexiones de esta forma

Para...	Haga esto...
Ver la señal proveniente del receptor satelital	Presione TV/VIDEO hasta que quede seleccionada la entrada del receptor satelital (VIDEO 1 en la ilustración).
Programar el control remoto del televisor para que funcione con el receptor satelital	Si su receptor satelital no es marca Sony, debe programar el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto del televisor para que funcione con el receptor satelital	Presione SAT/CABLE FUNCTION (Función de satélite/cable).
Controlar las funciones del receptor satelital con el control remoto del televisor	Vea "Con un receptor satelital" en la página 61.
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video en las páginas 72-73.

Instalación
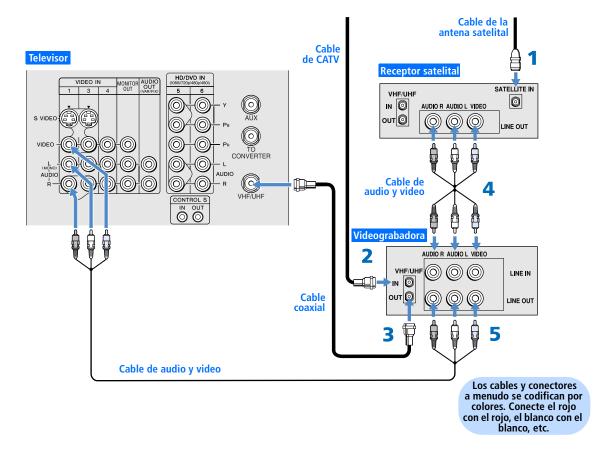
Receptor satelital y videograbadora

Para conectar un receptor satelital y una videograbadora

1 Conecte el cable de la antena satelital a la entrada satelital del receptor satelital.

2 Conecte el cable del sistema de televisión por cable a la entrada VHF/UHF de la videograbadora.

3 Utilice un cable coaxial para conectar la salida VHF/UHF de la videograbadora al conector VHF/UHF del televisor.

4 Utilice un cable de audio y video para conectar las salidas de audio y video del receptor satelital a las entradas de audio y video de la videograbadora.

5 Utilice un cable de audio y video para conectar las salidas de audio y video de la videograbadora a las entradas de audio y video del televisor.

6 Ejecute el programa Autoajustes, como se describe en "Programación de la lista de canales" en la página 38.

Cable de la antena satelital

Cable de CATV

Televisor

Receptor satelital

Videograbadora

Cable de audio y video

Cable coaxial

Cable de audio y video

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

Notas para cuando realiza las conexiones de esta forma

| *Para...*	*Haga esto...*
Ver la señal proveniente del receptor satelital	Presione TV/VIDEO hasta que quede seleccionada la entrada de la videograbadora (VIDEO 1 en la ilustración). Es posible que la videograbadora deba estar encendida y preparada para recibir la entrada del receptor satelital.
Ver la videograbadora	Presione TV/VIDEO hasta que quede seleccionada la entrada a la que está conectada la videograbadora (VIDEO 1 en la ilustración).
Programar el control remoto del televisor para que funcione con el receptor satelital o la videograbadora	Si su videograbadora o receptor satelital no es marca Sony, debe programar el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto del televisor para que funcione con el receptor satelital o la videograbadora	Para el receptor satelital presione SAT/CABLE FUNCTION (Función de satélite/cable). Para la videograbadora, coloque el selector de audio y video en la misma posición en la que haya programado la videograbadora y después presione VCR/DVD FUNCTION.
Controlar las funciones del receptor satelital y la videograbadora con el control remoto del televisor	Vea "Con un receptor satelital" en la página 61 y "Con una videograbadora" en la página 60.
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video en las páginas 72-73.

Instalación

Reproductor de DVD con conectores de video componente

Para obtener los mejores resultados, realice las conexiones de esta forma si su reproductor de DVD cuenta con conectores de video componente (Y, PB, PR).

Para conectar un reproductor de DVD con conectores de video componente

1 Utilice tres cables de video componente separados para conectar los conectores Y, PB y PR del reproductor de DVD a los conectores Y, PB y PR (VIDEO 5) del televisor.

> ✍ **En ocasiones, los conectores Y, PB y PR de los reproductores DVD están marcados Y, CB y CR o Y, B-Y y R-Y, en cuyo caso deberá conectar los cables de manera que los colores coincidan.**

2 Utilice un cable de audio para conectar las salidas de audio del reproductor de DVD a las entradas de audio VIDEO 5 del televisor.

Cables de video componente

Televisor

Reproductor de DVD

1

LINE OUT
R—AUDIO—L VIDEO

COMPONENT VIDEO OUT
Y   PB   PR

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

2

Cable de audio

32

Notas para cuando realiza las conexiones de esta forma

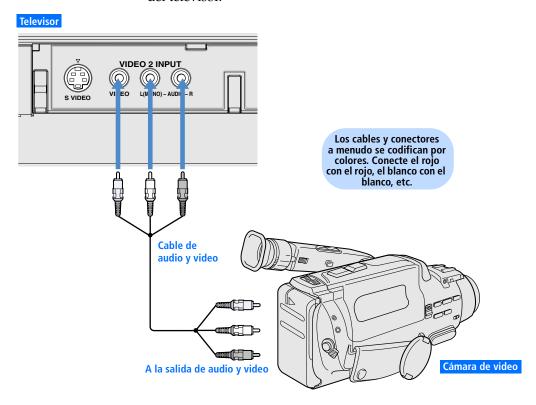| Para...	Haga esto...
Ver la señal proveniente del reproductor de DVD	Presione TV/VIDEO hasta que quede seleccionada la entrada DVD (VIDEO 5 en la ilustración).
Programar el control remoto del televisor para que funcione con el reproductor de DVD	Si su reproductor de DVD no es marca Sony, debe programar el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto del televisor para que funcione con el reproductor de DVD	Coloque el selector de audio y video en la misma posición en la que haya programado el reproductor de DVD. Después presione VCR/DVD FUNCTION (Función de videograbadora/DVD).
Controlar las funciones del reproductor de DVD con el control remoto del televisor	Vea "Con un reproductor de DVD" en la página 62.
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video en las páginas 72-73.
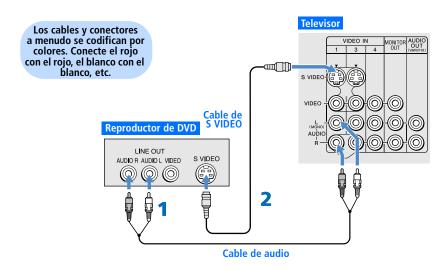
✍ **No es posible grabar la señal proveniente de equipo conectado a los conectores Y, PB, PR.**

Reproductor de DVD con conectores S VIDEO y audio

Realice las conexiones de esta forma si su reproductor de DVD no cuenta con conectores de video componente (Y, P$_B$, P$_R$).

Para conectar un reproductor de DVD que tenga conectores de audio y video

1 Utilice un cable de audio para conectar las salidas de audio del reproductor de DVD con las entradas de audio del televisor.

2 Utilice un cable de S VIDEO para conectar el conector S VIDEO del reproductor de DVD con el conector S VIDEO del televisor.

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

Notas para cuando realiza las conexiones de esta forma

Para...	Haga esto...
Ver la señal proveniente del reproductor de DVD	Presione TV/VIDEO hasta que quede seleccionada la entrada DVD (VIDEO 1 en la ilustración).
Programar el control remoto del televisor para que funcione con el reproductor de DVD	Si su reproductor de DVD no es marca Sony, debe programar el control remoto. Vea "Programación del control remoto" en las páginas 43-44.
Activar el control remoto del televisor para que funcione con el reproductor de DVD	Coloque el selector de audio y video en la misma posición en la que haya programado el reproductor de DVD. Después presione VCR/DVD FUNCTION (Función de videograbadora/DVD).
Controlar las funciones de DVD con el control remoto del televisor	Vea "Con un reproductor de DVD" en la página 62.
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video en las páginas 72-73.

Cámara de video

Para facilitar la conexión de una cámara de video, la parte delantera del televisor cuenta con entradas para audio y video. Sin embargo, si prefiere, puede conectar la cámara a las entradas de audio y video en la parte posterior del televisor.

¿Desea usar los conectores de S VIDEO? Vea la página 21.

Para conectar una cámara de video

1 Utilice cables de audio y video para conectar las salidas de audio y video de la cámara de video con las entradas de audio y video del televisor.

Televisor

VIDEO 2 INPUT

S VIDEO   VIDEO   L(MONO) – AUDIO – R

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

Cable de audio y video

A la salida de audio y video

Cámara de video

Si la cámara de video es monofónica, conecte su salida de audio al conector de audio L MONO (monofónico izq.) del televisor.

Notas para cuando realiza las conexiones de esta forma
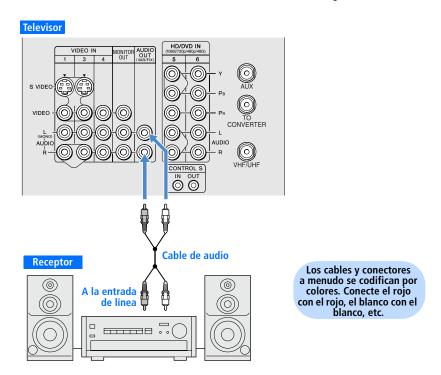
Para...	Haga esto...
Ver la cámara de video	Presione TV/VIDEO hasta que quede seleccionada la entrada de cámara de video (VIDEO 2 en la ilustración).
Asignar etiquetas de video a las señales de entrada para identificar fácilmente al equipo que haya conectado al televisor	Vea las instrucciones sobre la programación de Etiquetas de Video en las páginas 72-73.

Receptor de audio Para obtener la mejor calidad de sonido se recomienda que use su sistema de estéreo para reproducir el audio del televisor.

Para conectar un sistema de audio

1 Utilice un cable de audio para conectar las salidas de audio del televisor con las entradas de línea del receptor de audio.
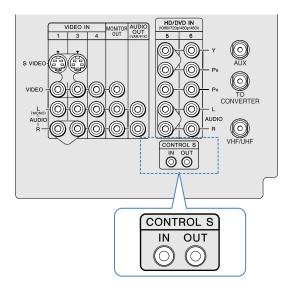

Televisor

Cable de audio

Receptor

A la entrada de línea

Los cables y conectores a menudo se codifican por colores. Conecte el rojo con el rojo, el blanco con el blanco, etc.

2 Utilice el menú Audio del televisor para establecer la opción Bocinas en No. Después, establezca la opción Salida de Audio en Fija o Variable, según la forma en que desee controlar el volumen. Para obtener detalles, vea "Uso del menú Audio" en la página 66.

3 Encienda el receptor de audio y después establezca la entrada de línea del receptor en el conector al que haya conectado el televisor.

Uso de la función CONTROL S

La función CONTROL S le permite controlar, con el mismo control remoto, tanto su sistema como otros aparatos Sony. Además de esto, esta función le permite apuntar su control remoto únicamente a su televisor, en lugar de tener que estarlo apuntando a otros aparatos, que podrían estar ocultos o fuera de su alcance visual.

Utilice CONTROL S IN para enviar la señal al televisor.

Utilice CONTROL S OUT para enviar señales a otros aparatos que tenga conectados.

Programación de la lista de canales

Una vez conectado el televisor, se debe ejecutar Autoajustes para identificar los canales que se sintonizarán. Al encender su televisor por primera vez después de instalarlo, aparecerá la pantalla de Autoajustes. Si no desea que el televisor identifique los canales en ese momento, podrá hacerlo posteriormente mediante la opción Autoprogramación ubicada en el menú Canal (vea la página 68).

✐ **La función Autoajustes no corresponde a instalaciones que utilizan un decodificador para seleccionar los canales.**

Uso de Autoajustes

1 Presione el botón POWER (encendido/apagado) para encender el televisor.
2 Presione el botón TV FUNCTION (Función de televisor) del control remoto.
3 Para continuar ejecutando Autoajustes, presione CH+. Para salir de Autoajustes, presione CH-.

La función Autoajustes creará automáticamente una lista de los canales que el televisor podrá recibir. Una vez terminado Autoajustes, aparecerá en la pantalla el canal de numeración más baja.

Para restablecer los ajustes de fábrica del televisor

1 Presione el botón POWER (encendido/apagado) para encender el televisor.
2 Mantenga presionado el botón RESET (restablecer) del control remoto.
3 Presione el botón TV POWER en el televisor. (El televisor se apagará y después volverá a encenderse.)
4 Suelte el botón RESET (restablecer).

PRINTING THE SERVICE MANUAL

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS _____

If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows:

1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS _____

Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.

If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape (▭) mode.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC _____

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

1) To view the Graphics Select Tool, press and HOLD the mouse button over the Text Select Tool which looks like: T
    This tool will expand to reveal to additional tools.
    Choose the Graphics Select tool by placing the cursor over the button on of the far right that looks like: ●

2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.

3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marquee.

ON-SCREEN SEARCH OPTION

All of the text within the service manual PDF is content searchable. This means that you can enter any text, word, phrase or reference number that appears in the manual, and the PDF software will search, find and move the cursor to the location where you requested text first appears. This feature can be particularly useful in locating components on a specific schematic or printed wire circuit board (PWB) diagrams.

Follow these steps to effectively locate a component on a schematic diagram:

1) Locate the schematic you want to search by clicking on the corresponding bookmark on the left side of the screen. The view on the right of the screen will then jump to the desired schematic page.

2) Magnify the diagram to at least 400% before conducting a component search. This will enable you to easily view the reference number when it is highlighted on screen. To do this, click on the magnifying glass button on the tool bar at the top of the screen. Move the cursor over the diagram and RIGHT click you mouse. Select the 400% magnification option on the pop-up menu. Click on the button with the icon of the open hand to deactivate the magnification tool

3) Search the diagram (or the entire manual) by clicking on the binocular button tool at the top of the screen. The "Find" window will appear and allow you to type in your desired text. Type in a reference designator, such as R502, and click on the "Find" button. If the component is not on the diagram, but is listed anywhere else in the manual, the cursor will jump to the first location the text is found in the file. To find another instance of that same text, click on the binocular button again and select "Find Again."